

Jungwierth delin Sc.M.



# HISTORIA

# COELESTIS

## *BRITANNICA,*

Tribus Voluminibus contenta.

VOLUMEN PRIMUM.



JOHANNES FLAMSTEEDIUS Derbiensis
Astronomiæ Professor Regius. Anno Ætatis 74 Obijt Decem: 31 1719

# HISTORIÆ COELESTIS BRITANNICÆ
## VOLUMEN PRIMUM.

Complectens

*STELLARUM FIXARUM*

Nec non

*PLANETARUM OMNIUM*

# OBSERVATIONES

*Sextante, Micrometro, &c. peractas.*

Quibus ſubjuncta ſunt

## PLANETARUM LOCA

ab iiſdem OBSERVATIONIBUS deducta.

Obſervante *JOANNE FLAMSTEEDIO*, A.R.

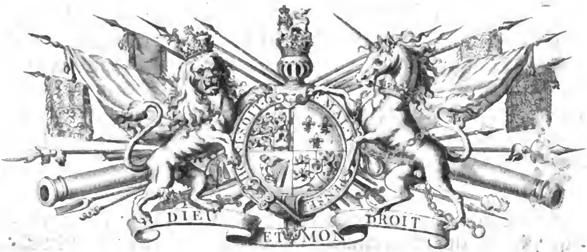
In OBSERVATORIO Regio

## GRENOVICENSI

CONTINUA SERIE

Ab Anno 1675, ad Annum 1689.

*LONDINI:* Typis H. MEERE. M.DCC.XXV.




SERENISSIMO ac POTENTISSIMO PRINCIPI

# GEORGIO,

*Dei gratia Magnæ Britanniæ &c. Regi,*

INSEQUENTEM hanc Cœlorum Historiam Tibi, Princeps Augustissime, quàm humillimè Dedicatam, continuis multorum Annorum Observationibus, crebris Excubiis & assiduâ Diligentiâ, lucubravit, exegit, elaboravit solers ejusdem, & indefessus Auctor.

Jubente CAROLO secundo, Rege ad rem Nauticam promovendam Nato, incepit. Aspirantibus vero cæteris deinceps Principibus, ad Tuam usque Inaugurationem felicissimam, quotidie in majus auxit.

Tu

# DEDICATIO.

Tu igitur (quæ Tua eſt Bonitas) facillimè ignoſces Editoribus, quòd Cæptum tam longum, tam arduum, plenum Laboris, plenum Sumptûs, Tibi ad Pedes ponere vehementer ardeant. Quippe qui non poſſint Sibi non promittere, Te ſub Tutelam Tuam Regiam lubentiſſimè accepturum Opus, ſub Perpetuo Regum Patrocinio inceptum, continuatum, finitum; atque ita quaſi Jure Regni Tibi traditum, & Tuæ commiſſum Fidei.

Adhuc immaturum fovebant Anteceſſores Tui, Ominantes nimirum, in quantam tandem aliquando ſuccreſceret Altitudinem. Tu vero ſumis omnibus numeris abſolutum; ſub Tuo ipſius Regno Auſpicatiſſimo ad Umbilicos perductum; Suo ſcilicet Auctoriſque felici Sidere in hunc delatum Diem, ut benignis tam Inclyti Patroni Radiis enutritum ad plenam perveniret Maturitatem.

Qui Vir fuerit Auctor longum eſſet narrare, quodque & Audaciam ſaperet, & Arrogantiam. Quod vero a Nobis fieri non decet, id facto non eſt opus.

Quàm probe enim tum Navigandi Artem, tum Scientiam Aſtronomicam calluerit Flamſtedius; quàm ſedulam aſperioribus hiſce Studiis excolendis, & ad Praxin Uſumque revocandis navaverit Operam; quâ Humanitate, quâ Facilitate propinaverit aliis inexhauſtos Laboris Sui Fructus; Sibi vero quàm parum pepercerit; Notum ſatis Omnibus & comprobatum eſt.

Hac tam felici indole, His animi dotibus, ſi, inter clariſſimos Ætatis Suæ Viros, paucos quoſdam agnoverit pares (Pares autem habuit planè perpaucos) Hoc unum ſaltem audacter Aſſerimus, in Sacram Majeſtatem Tuam, in Imperium, in illuſtriſſimam Tuam Domum, egregium illud Reformatæ Religionis Decus & Tutamen, Pietate, Studio, Affectu Cordis integerrimo, ſuperiorem habuiſſe prorſùs Neminem.

Omnibus

# D E D I C A T I O.

Omnibus prænobili Tuâ ſtirpe Oriundis perennem Incolumitatem, plenam Felicitatem, proſpera denique & ſerena omnia; Ipſi vero ante omnes Tibi, diu ut Vivas, diu Valeas, diu & feliciter Nobis imperes; ſicut quotidie precatus eſt dum Vixit Ille : ſic precantur, & quam diu vixerint precaturi ſunt

*Subditi tui fideliſſimi,*

*Servique humillimè devoti,*

MARGARITA FLAMSTEED, *Vidua,*

JACOBUS HODGSON.

# AD
# LECTOREM.

*NON abs re Ducimus certiorem facere Lectorem, Obiisse hujus Operis Auctorem Decembris* 31mo *Anno Domini* M.DCC.XIX, *Dolore Stranguriæ per triduum jam opprimente, postquam maximam hujus Operis partem Typis ipse mandaverat, Parti residuæ extremam admovisset Manum, (exceptis Prolegomenis quæ Lingua Scripta Vernacula reliquit quæque si diutius vixisset recensere statuit,) Totumque Opus eodem quo nunc Ordine edendum in mandatis dederat, Prolegomenis nimirum tertii Voluminis initio præfixis. Quod quanquam ab usitata Methodo alienius fortasse videatur, attamen si Animo expendamus in hunc apprime Usum extructum esse* OBSERVATORIUM, *ut Fixarum Catalogus accuratus obtineretur, & quum hæc Prolegomena particularem reddunt Descriptionem quibus Instrumentis, qua Methodo prædictus obtinebatur Catalogus, & quum adeo sibi invicem sint affinia, peridoneum apparebit, atque Ordini perquam consentaneum.*

*Eximius hicce vir Vitam clausit Anno Ætatis suæ* 74to, *Natus Augusti* 19no, *Anno Domini* M.DC.XLVI, *in Oppido Derbiæ in Anglia. Omnium Seculi sui Astronomorum facile Princeps erat, & Coryphæus, nulloque Seculorum præteritorum secundus. Ad Inceptum tam grande, tamque generosum, a Natura creatus videbatur, qui a tenero jam Ungui Studiis Astronomicis apprime Incubuit, non tam Rem suam augendi gratia, quam verum indagandi, solidumque jacendi Fundamentum, pro Legibus definiendis, quibus reguntur Corpora Cœlesta, unde inæstimabilem Posteritati reliquit Thesaurum, quo clarissima ejus Memoria, in omne Ævum erit prorogata, Ejusque Nomen apud Posteros ad Astra digne feretur, quamdiu nimirum Homines Cœlos contemplabuntur, Navesque Æquora pererrabunt.*

*Quid de* Flamsteedio, *ejusque Operibus censebat Gens Literaria, patet ex Epistolis, ab Ipso, virisque omnium Gentium celeberrimis, ultro citroque datis, quæ forsitan aliquando in Lucem prodeant. Quid autem inter Nostrates optimi Censerint Judices ex sequenti Excerpto elucescit, cujus Rei Ratio hæc erat,* viz.

*Cum Dominus* FLAMSTEEDIUS, *Annum circiter* M.DCC.IV, *Manuscriptorum omnium, quæ tunc habuit Prælo parata, Rationem, per Amicum quendam, Regiæ communicaverit Societati, ita oblectati sunt Societatis illius Socii, ut unanimo Consensu, Serenissimo Daniæ Principi* Georgio, *tunc temporis* Thalassiarchæ, *atque egregio Scientiarum Patrono commendaverint, tanquam Opus Ejus Favore, & Patrocinio non indignum. Quibus ille annuere non dedignatus, Epistolam Georgii Clark Armigeri (tunc Ipsius in* Foro Thalassiarchali *Secretarii) manu exaratam ad Eos dandam jussit; qua, iis quorum Nomina subscribuntur, Viris, id delegavit Negotii, ut Chartas nimirum inspicerent Flamsteedianas, atque ipsi redderent Rationem, quid in iis dignum esset quod Typis mandaretur, & quinam in eo sumptus faciendi. Cujus Mandatis Illi morem gerentes, suum hisce de rebus illico miserunt Rescriptum, Cujus Sententia sic se habet,* viz.

Hanc

## Ad Lectorem.

Hanc Observationum Seriem, omnium quæ hactenus a Quoquam sunt peractæ, copiosissimam ducimus, & perfectissimam; Et quum tam ad Astronomiæ, quam Nauticæ Artis Perfectionem, quam plurimum confert, ita si deperdita fuerit, ejusdem Jacturam, nullo modo reparandam credimus. Ut vero Opus adeo sumptuosum, e Tenebris unquam emergeret, qua Ratione fieri possit, omnino Nos latet, nisi, Tibi, Princeps Serenissime, placuerit Tuis Ipsius Impensis edere,

*Sic Testantur*

*Celsitudinis Tuæ*

*Clientes quam humillime devoti*

Franciscus Roberts,
Christophorus Wren,
Isaacus Newton,
David Gregory,
Joannes Arbuthnot.

*Non ita multo post redditum hoc* Rescriptum, *ubi primum Chartæ parari poterant, & idoneæ imprimendi Operis iniri Rationes, feliciter inceptum est, atque Primi Voluminis Schedæ Nonaginta septem Typis mandabantur, durante Serenissimi Principis Vita, Ejusque sumptibus. At post hujusce Principis Obitum, hoc magnum Opus tantum ipsis sumptibus Flamsteedianis promovebatur, atque Ipso jam defuncto sumptibus Executorum.*

*N. B.* Mappæ Cœlestes sub Finem τῶν Προλεγομένων memoratæ, sunt Numero 25 (exceptis tam Borealium quam Australium Constellationum Planisphæriis) quarum aliquæ jam sunt Sculptæ, reliquæ vero quam primum possint, finientur, atque edentur.

# HISTORIÆ COELESTIS.

## *GULIELMI GASCOIGNII*, Armigeri,

## OBSERVATIONES COËLESTES,

Tubis Opticis, & Micrometro a ſeipſo primum invento, *Middletoniæ*, juxta *Leodias*, in Comitatu *Eboracenſi*, habitas, ſub Latitudine 53° 41′. Ab Anno 1638 ad 1643.

Cum nonnullis etiam *Gulielmi Crabtræi* hactenus inæditis Obſervationibus Eclipſium, &c. quas ab intermutuis illorum autographis Epiſtolis deſcripſit *J. Flamſteedius.*

OBSERVATIONEM Defectûs Lunaris, viſæ decimo Die Decembris, Anni 1638, pulchrè ipſius *Gaſcoignii* manu in ſolutâ Schedâ deſcriptam, Verbis in hunc Senſum reperi:

Ventus (ſic ſcribit) vehementer ſpirans, unicam ſolummodò, è Feneſtrâ Cubiculi, Sextante haberi Obſervationem permittebat; quâ tempora ab Horologio numerata corrigerem, Hora ſcilicet 13 h. 29′ P. M. quando Lunæ capta Altitudo 56° 06′, unde Tempus deduxi 11 Min. tardiùs quam indicaverat Horologium, quo oſtendente,

| | Per Horolog. | | Veré. | |
|---|---|---|---|---|
| | h | ′ | h | ′ |
| Immerſio ———— | 13 | 13 ½ | 13 | 02 ½ |
| Lucis primus reditus | 14 | 50 ⅔ | 14 | 39 ⅔ |
| Finis ———— | 15 | 51 | 15 | 40 |

Sub initio reſtitutionis Lucis, Luna erat inter antecedentem Stellarum in Pede præcedentis Gemini, & ſequentem Pedis ejuſdem; ad Auſtrum à rectâ lineâ per utraſque ductâ, quartâ, quod potui judicare, parte Diametri.

Hæc ille. Ejuſdem etiam Defectûs *Broughtonæ* juxta *Manceſtriam*, à *Crabtrao* factas Obſervationes, in Epiſtolâ ad *Gaſcoignium*, datâ Martii 18, 1640-1, deſcriptas inveni.

| *Temp. cor.* h ′ ″ | | ° ′ ″ | |
|---|---|---|---|
| 11 58 00 | Fumus cœpit ſubobſcurus ad marginem Lunæ orientalem; deinde Nubes tenues detinuere Lunam uſque 12 h 06′, ut verum veri Defectûs initium definire non potueram. | | |
| 12 30 15 | Lineæ A. B. per Cornua ductæ, ad verticalem correcta inclinatio, 15° 57′. | | *Vide* |
| 12 43 40 | Ejuſdem lineæ Inclinatio ———— | 24 16 | *Fig.* 1. |
| 12 33 15 | Eclipſis cornua ad dimidiam ferè circumferentiam Lunæ | | |
| 12 35 00 | Linea per cornua ducta diſtabat à limbo lucido ———— | 00 22 ½ | |
| 12 52 53 | Inter Cornua ———— | 00 28 | |
| 12 58 30 | Iſthæc diſtantia ———— | 00 23 ½ | |
| 13 02 30. | Obſcuritas per totam faciem Lunæ. | | |
| 13 03 30 | Eclipſin putavi perfectam totius Lunæ. | | |
| 13 06 00 | Non dubitavi quin tam antea Eclipſis fuerat perfecta totius Lunæ. | | |

## ANNO MDCXXXIX & XL.

## *Gulielmi Gascoignii* Observationes Cœlestes.

| Temp. cor. h ′ ″ | | ° ′ ″ |
|---|---|---|
| 14 40 30 | Luna cœpit exiguum lucis recuperare | |
| 14 43 50 | Inter cornua Eclipsis | 00 23 ½ |
| 14 48 20 | Isthæc distantia | 00 26 |
| 14 52 50 | Inclinatio lineæ A. B. per cornua ducta | 12 00 |
| 15 05 10 | Linea per cornua à limbo lucido | 00 22 ½ |
| 15 08 20 | Inclinatio lineæ A. B. correcta | 15 32 |
| 15 16 50 | Umbra à limbo Lunæ lucido | 00 22 ½ |
| 15 22 30 | Isthæc distantia | 00 24 ½ |
| 15 25 50 | Cornuum Inclinatio correcta | 21 03 |
| 15 33 20 | Inter cornua Intercapedo | 00 20 |
| 15 36 20 | Isthæc rursus distantia | 00 18 |
| 15 39 00 | Circiter finem veræ Eclipsis fuisse puto. | |
| 15 40 00 | Etiamnum exigua Obscuritas. | |
| 15 42 00 | Ante hoc tempus omnino clara. | |

*Vide Fig.* 2

Subjungit. Discrepant exiguum aliquid à Phocillide hæ Observationes, cum tuis perbenè congruunt; in correctione duntaxat Horologii alter nostrum peccaverit, nullam enim Meridianorum nostrorum distantiam collatæ permittunt, cum trium circiter Minutorum horariorum distantiæ exigunt itinerariæ; me quod attinet measque, ego cum momenta tum defectum quá potui curâ & diligentiâ designavi: de temporum certitudine haud pauca dicere possum, sed nolo de meis unquam audacter nimium pronunciare.

Eclipsis Solaris celebrati Maii 22, 1639, Observationes sequentes, *Middletoniæ* juxta *Leodias* in Comitatu *Eboracensi*, factas, in Epistolâ ad *Crabtræum*, data Decemb. 2, 1640, describit *Gascoignius*.

| Alt. ☉ ° ′ | Hor. inde supp. h ′ ″ | Partes Centesimæ Semidiam. | Gradus Circumf. Definition. |
|---|---|---|---|
| 35 35 | 3 51 12 | | |
| 33 51 | 4 09 59 | 46 | |
| 30 47 | 4 30 42 | 106 | |
| 26 30 | 4 59 39 | 161 | |
| 25 58 | 5 03 15 | 160 | |
| 25 20 | 5 07 32 | 148 | |
| 23 23 | 5 20 45 | 120 | |
| 21 38 | 5 32 40 | 87 | 110 |
| 20 53 | 5 37 47 | 70 | 96 |
| 20 11 | 5 42 35 | 60 | 90 |
| 19 28 | 5 47 30 | 46 | 80 |
| 18 12 | 5 56 15 | 19 | 50 |
| 17 20 | 6 12 16 | 0 | |

Initium.

Crescente Eclipsi, ab initio scilicet ad medium, Cœlum sub Sole nubibus plerumque fuerat obductum; Diametrorum ratio erat ut 100 ad 92, (sic scribebam) ut inter duos circulos parallelos 90 & 95 capta. Certus tamen esse nequeo non fuisse 97; nollem igitur huic plus quàm tua te suadebit ratio confideres: per tria puncta etiam observavi, sed incommodam Methodum inveni, & incertas inde deductas proportiones inter 81 & 100. Fuisse tamen alteram è prioribus, & me scripsisse 92, certus sum.

Pleiadum intermutuas distantias, Cochlearum ope, primum ab ipso Telescopio adhibitarum, dimensas in eadem Epistolâ communicavit *Crabtræo* suo *Gascoignius*: quas quando certo nulli diei consignavit, non extra ordinem hic describam.

*Vide Fig.* 3

| | ′ ″ | | ′ ″ |
|---|---|---|---|
| ab | 35 01 | df | 38 18 |
| ae | 27 50 | af | 22 54 |
| cb | 19 24 | cb | 21 |
| ed | 25 31 | ac=df feré. | |
| bd | 22 43 | dc=ab feré. | |

Has

## ANNO MDCXL & XLI.

## *Gulielmi Gaſcoignii* OBSERVATIONES Cœleſtes.

Has Tubo quatuor pedum circiter ſe cepiſſe menſuras refert *Gaſcoignius*; quas tamen ſi cum recentioribus earum Obſervationibus conferes, exiguas omninò differentias reperies; eaſque Tuborum diverſis Longitudinibus, & Machinarum ipſis adhibitarum melioribus fabricis, facilè excuſandas.

## ANNO 1640.

Octobris 15. Cum Azimutha Saturni erat 7° ferè à Meridie verſus Ortum, ipſe per Tubum altior apparuit, ac 26ta Aquarii, per duos vel tres Scrupulos primos; ad Occaſum à circulo verticali fixam pertranſeunte; è quâ diſtetit 25′ 09″.

Octobris 16. Saturni à fixâ diſtantiâ 25′ 36″. Fixæ tunc locus Tychonicus Aquarii 23° 46. Latitudo 2° 00 Meridionalis.

Octobris 25. Solis variis modis obſervata Semi-diameter 16′ 11″ vel 10″.

Octobris 31. Solis iterum capta Semi-diameter 16′ 11″.

Ex alia *Gaſcoignii* ad *Crabtræum* Epiſtola data Martii 22, 1640.

Decembris 2. Solis obſervata Semi-diameter 16′ 24″.

## ANNO 1641.

Januarii 11, Veſperi, Lunâ tranſeunte ſupra 15 Tauri, Hora 7 51′ $\frac{3}{4}$, limbus ejus inferior erat 15′ 19″ ſupra fixam, & duobus ferè ſcrupulis occidentalior. *Lunæ Centrum intelligo*; hora enim 8 03′ P. M. alto Syrio 14° 50′, Lunæ Centrum fixam præterierat 7′. Fixæ tunc locus Tychonicus ♊ 3° 27′, Latitudo 2° 36′ $\frac{1}{2}$ Meridionalis.

Februarii 9, Veſperi, Ibat Luna ſupra 13 Orionis, cujus tunc locus Tychonicus ♊ 23° 42′, Latitudo 3° 12′ $\frac{1}{2}$ Meridionalis: è quâ, alto Syrio 18° 10′, *i. e.* hor. ejus limbus Borea-Zephyrus diſtabat 15′ 02″.

Horâ 8 36′ $\frac{1}{2}$, alto corde Leonis 36° 40′, limbus idem Lunæ & fixa in eodem circulo verticali apparuere, diſtantes 16′ 42″.

Horâ 8 57′, alto corde Leonis 39° 24′, iſthæc diſtantia 19′ 02″.

Horâ 9 40″, alto, eodem 44° 00″, diſtantia repetita 40′ 00″, & Lunæ capta Diameter 30′ 54″.

Martii 10, Veſperi, Lunâ ſupra 13 ♊ tranſeunte, cujus tunc locus Tychonicus ♋ 13° 46′, Latitudo 5° 41′ Meridionalis, fixæ cepit.

| *Hora Horolog.* h | ′ | *Correct.* h | ′ | | ′ | ″ |
|---|---|---|---|---|---|---|
| 8 | 02 | 8 | 03 $\frac{1}{2}$ | Diſtantiam à cuſpide proximo | 30 | 18 |
| 8 | 25 | 8 | 28 | ——— rep. | 23 | 59 |
| 8 | 40 | 8 | 44 | ——— Iter. | 20 | 19 |
| 8 | 59 | 9 | 05 | Fixa in recta per cuſpides—— | 18 | 20 |
| 9 | 26 | 9 | 34 | Fixa à limbo lucido—— | 18 | 20 |
| 10 | 20 | 10 | 32 | ——— rep. | 29 | 47 |

Interea pro emendatione Horologii, ſequentes cepit altitudines cordis Leonis & Arcturi, è quibus adſcripta ſupputavi tempora.

| *Hora Horol.* h | ′ | | *Altitud.* ° | ′ | *Hora inde ſupp.* h | ′ |
|---|---|---|---|---|---|---|
| 7 | 50 | Cordis Leonis | 43 | 48 | 7 | 49 $\frac{2}{3}$ |
| 7 | 56 | | 44 | 28 | 7 | 56 $\frac{2}{3}$ |
| 8 | 47 | | 48 | 38 | 8 | 53 |
| 10 | 01 | Arcturi | 36 | 48 | 10 | 15 $\frac{1}{2}$ |
| 10 | 30 | | 40 | 41 | 10 | 41 |

Quibus

ANNO MDCXLI & XLII.

## *Gulielmi Gascoignii* & *Guliel. Crabtræi* Observationes Cœlestes.

Quibus subjungit quod die sequenti, horâ 10 horologium ostenderat tempus 37′ scrupulis horariis justo tardiùs, & Lunæ captam Semi-diametrum, 18′ 03″.

### Ex Epistola *Crabtræi* ad Dominum *Gascoignium*, Maii 26, 1641.

Motus, quod scis macularum Solarium proximè sit Æquinoctiali Parallelus cùm maximam habeant ad Eclipticam Inclinationem, hoc accidit circa finem Novembris: difficile est, imò vix possibile ipsissimum diem æquilibrii determinare. *Scheinerus* habet 21 vel 22 Augusti & Februarii; maximam Inclinationem circa 22 Maii & Novembris, Styli veteris. Attamen, quantum ego varias ipsius Observationes conferendo possum assequi, maximæ Inclinationes fieri videntur potiùs circa 28 Maii & Novembris; Æquilibrium circa 25 Februarii, & 28 Augusti: Harum præcisam quantitatem definire nequeo, siquidem diversa è diversis Observationibus exantlatur: plurimæ tamen faciunt inter Gradua 7 & 8.

### In eadem Epistola alibi.

Sexto Aprilis præteriti, Sol tres circiter gradus altus per tenues nubeculas nudis oculis aspectabilis apparuit; defixis propterea supra trabeculam duabus acubus, normaliter ab iis recessi donec per extimam alterius, alterius intimam marginem extremos limbi Solaris limites utrinque potui discernere; ibique notato oculi mei loco, ejus ab acubus distantiam inveni partium 2011, qualium earum Interstitium 19 75: Solisque propterea Diametrum apparentem 32′ 03″, Semi-diametrum 16′ 01″ $\frac{1}{2}$. Solis limbus haud admodum accuratè definitus erat, propter nubeculæ nimiam opacitatem; alioquin non inaccuratam hanc Observationem existimâssem.

De eadem re in ejus Responso, dato Junii 22, 1641, Dominus *Gascoignius* hæc habet.

Nihil certius esse potest quàm Solis Semi-diametrum non variari plus 35″ scrupulis secundis summùm; cujus cùm huc redieris luculentissima videbis argumenta: Hæreo duntaxat num maxima sit Semi-diameter 16′ 25″, vel 16′ 30″; & an minima 15′ 50″, vel 15′ 55″; cum hæ sint quantitates tum minimæ majori vitro, tum maximæ minori. Vigiliis Pentecostes Veneris Diametrum observavi 1′ 04″ accuratissimè, æreis Indicibus; quam nihil à tuis & Domini *Horoccii* Observationibus dissentire credo, si ad veram Solis Diametrum reductæ fuerint, considerato etiam Veneris loco, quæ non nisi post dies sedecim Soli conjuncta fuerit futura.

### Ex Epistola *Crabtræi* ad *Gascoignium*, Junii 22, 1642.

In Eclipsi Lunæ 4ti Aprilis præteriti, Cœlos nubes densæ ad finem ferè subtegebant; iis tamen sub exitu Lunæ aliquando dehiscentibus.

| *Hora Horolog* h ′ | *Hora Correct.* h ′ | |
|---|---|---|
| 15 17 | 15 23 | Ipsam per Hiatum vidi $\frac{1}{3}$ Semiperipheriæ in orâ dextrâ & inferiori deficientem. |
| 15 19 | 15 25$\frac{1}{3}$ | Rursus per Nubium Hiatus apparuit obscurata etiamnum $\frac{1}{4}$ Semicircumferentiæ. |
| 15 22$\frac{1}{2}$ | 15 29$\frac{1}{3}$ | Subobscurè apparuit iterum, sed nubibus impedita prætervolitantibus, ut vix dignoscere potui utrum penitus umbra evaserat necne: adhucdum tamen occidentalem limbum opposito obscuriorem putabam. |
| 15 25 | 15 31$\frac{2}{3}$ | Ipsam rursùs per nubes conspexi, determinare tamen non potui num ab Eclipsi libera necne; putabam potiùs tenuem manere in dextro limbo obscuritatem, sed de eâ certus non eram. |
| 15 29 | 15 35$\frac{2}{3}$ | Denique è nubibus evadens, clarior apparuit quàm antea, eratque limbus ejus perfectè nitidus. |

Pro

## ANNO MDCXLI & XLII.

## Gulielmi Gascoignii OBSERVATIONES Cœleſtes.

### Pro Examinatione Horologii.

*Per Horolog.*

| h | ′ | | ° | ′ | | h | ′ |
|---|---|---|---|---|---|---|---|
| 15 | 50 | Altitudo lucidæ Vulturis | 38 | 17 | Hora inde ſup. | 15 | 57 |
| 16 | 04 | Ejuſdem Altitudo —— | 39 | 32 | Hora inde ſup. | 16 | 10 |

Aprilis 5, manè, Hora 8 56′ ½ per Horologium, Altitudo vera Solis erat 34° 00′, unde Hora vera elicitur 9 h 03′ ½; requiſitam ergo ſervavit conſtantiam Horologium; temporaque monſtrabat in Eclipſi 6′ ½ juſtò tardiora.

OBSERVATIONES Diametrorum LUNÆ ſequentes, ab Anno ineunte, 1641, à *Gaſcoignio* habitas, in ſoluta Scheda ipſius manu pulchrè deſcriptas reperi, ſcrupulis Gradûs centeſimis: Quibus ſexagenarios æquipollentes appoſui; quo facilior fiat earum cum Tabulis quibuſvis & Theoriis Collatio.

| *Anno* 1641. *Menſ.* | *Die.* | ☽ *Altit.* | *Hora P. M.* | *Semid. in Cent.* | *Semid. in* ′ ″ |
|---|---|---|---|---|---|
| Januarii | 9 | | 5 p.m. | 25 52 | 15 19 |
| | 10 | | 5 p.m. | 25 52 | 15 19 |
| | 12 | | 5 p.m. | 25 97 | 15 35 |
| | 13 | | 8 p.m. | 25 88 | 15 32 |
| | 14 | | 5 p.m. | 26 14 | 15 39 |
| | 16 | | 6 p.m. | 26 64 | 15 59 |
| Februarii | 9 | | 8 p.m. | 25 87 | 15 31 |
| | 11 | | 7 p.m. | 27 02 | 16 13 |
| | 13 | | 7 p.m. | 27 45 | 16 28 |
| | 16 | | 8 p.m. | 28 57 | 17 11 |
| Martii | 10 | | 9 p.m. | 29 13 | 17 29 |
| | 13 | | 8 p.m. | 27 53 | 16 19 |
| Aprilis | 6 | | 10 p.m. | 25 47 | 15 17 |
| | 7 | | 9 p.m. | 26 10 | 15 40 |
| | 9 | | | 26 80 | 16 05 |
| | 12 | Ex. | 9 p.m. | 28 23 | 16 56 |
| | 15 | Ex. | 9 p.m. | 28 23 | 16 57 |
| Maii | 13 | | 8 p.m. | 28 31 | 16 59 |
| Junii | 4 | | 9 p.m. | 26 23 | 16 44 |
| | 9 | | 9 p.m. | 27 63 | 16 35 |
| | 10 | | | 27 86 | 16 43 |
| | 11 | | 9 p.m. | 28 23 | 16 56 |
| | 12 | | 9 p.m. | 28 65 | 17 11 |
| Julii | 5 | | 9 p.m. | 26 60 | 15 58 |
| | 6 | | 9 p.m. | 26 91 | 16 09 |
| | 7 | | 9 p.m. | 27 55 | 16 32 |
| | 8 | | 9 p.m. | 27 96 | 16 46 |
| | 9 | | 9 p.m. | 28 07 | 16 51 |
| Augusti | 13 | | 9 p.m. | 26 04 | 15 38 |
| | 14 | | 9 p.m. | 26 36 | 15 49 |
| Septemb. | 1 | | 8 p.m. | 26 92 | 16 09 |
| | 4 | | 8 p.m. | 27 34 | 16 24 |
| | 6 | | 8 p.m. | 27 02 | 16 13 |
| | 7 | | 8 p.m. | 26 60 | 15 58 |
| | 11 | | 8 p.m. | 25 50 | 15 18 |
| | 13 | | 8 p.m. | 25 02 | 15 01 |
| | 15 | | 5 a.m. | 25 39 | 15 14 |
| | 16 | | 12 p.m. | 25 23 | 15 08 |
| | 20 | | 5 a. | 25 76 | 15 27 |
| Octobris | 11 | | 10 p. | 24 609 | 14 46 |

| *Anno* 1641. *Menſ.* | *Die.* | ☽ *Altitudo.* | *Hora.* | *Semid. in Cent.* | *Semid. in* ′ ″ |
|---|---|---|---|---|---|
| Octobris | 12 | 31 E. | 10 p. | 23 973 | 14 23 |
| | 18 | | 7 a. | 25 560 | 15 20 |
| | * 30 | | | 26 708 | 15 52 |
| Novembris | 2 | 20 | 5 p. Ex. | 25 687 | 15 25 |
| | 4 | 30 | 7 p. Ex. | 25 415 | 15 15 |
| | 5 | 35 | p. Ex. | 25 212 | 15 08 |
| | 9 | 18 | p. Ex. | 24 595 | 14 45 |
| | 12 | 5 | p. | 24 327 | 14 36 |
| | 13 | 46 ½ | a. m. | 24 732 | 14 50 |
| Q. | 13 | 5 40 | 10 33 | 26 376 | 15 49 |
| | 20 | 13 44 bc. | | 27 139 | 16 17 |
| | 26 | 15 | | 27 198 | 16 19 |
| | 29 | 34 40 | Merid. | 26 012 | 15 36 |
| | 30 | 39 40 | 7 27 | 25 683 | 15 25 |
| Decembris | 3 | 46 30 | 8 p. | 25 065 | 15 02 |
| | 8 | 32 | 9 07 | 24 567 | 14 44 |
| MDCXLII. | | | | | |
| Augusti | 25 | | | 25 76 | 15 27 |
| | 26 | | | 26 39 | 15 50 |
| | 27 | | | 26 65 | 15 59 |
| | 30 | 23 Ex. | | 27 654 | 16 35 |
| | 31 | 16 | | 27 200 | 16 19 |
| Septembris | 1 | 13 | 9 08 | 26 446 | 15 42 |
| | 17 | 3 | | 24 24 | 14 33 |
| | 19 | 6 | | 25 08 | 15 03 |
| | 20 | 14 ½ | 7 Ex. | 25 55 | 15 20 |
| | 24 | 22 E. | | 27 552 | 16 32 |
| | 26 | 22 ½ | 7 50 | 27 347 | 16 24 |
| | 27 | 39 W. | 1 30 | 27 886 | 16 44 |
| | 28 | 12 E. | 7 35 | 26 916 | 16 09 |
| | 29 | 18 40 E. | | 26 433 | 15 52 |
| | 30 | 22 20 W. | 9 40 | 26 148 | 15 41 |
| Octobris | 1 | 26 E. | 10 47 | 26 745 | 16 03 |
| | 7 | 46 20 | | 23 94 | 14 22 |
| | 8 | | 4 47 | 25 107 | 15 04 |
| Decembris | 23 | 18 | 5 p. | 24 67 | 14 48 |
| | 24 | 48 | 9 p. | 24 24 | 19 33 |
| | 26 | 31 | 9 p. | 23 85 | 14 19 |
| | 28 | 17 | 7 a. | 23 61 | 14 10 |
| | 29 | 13 | 9 p. | 23 59 | 14 09 |

# JOHANNIS FLAMSTEEDII, *Derbiensis*,

# OBSERVATIONES COELESTES,

## *DERBIÆ* habitæ sub Latitudine 52° 58′

## Ab Anno 1668, ad Annum 1674, completum.

### ANNO MDCLXVIII.

Octobris 25 ☉. DEFICIENTE Sole circa Meridiem, ejus Speciem per Telescopium in Scenam recepi, sub obscuro Tecto, quà Diameter ejus quatuor fere Digitos Pedis Anglicani, lata apparuit; hanc per sex Circulos concentricos in duodecem Digitos, & unumquemque similiter Digitum in quinas bene distinctas partes divisi. Ipsum Initium Nubes abstulêre, e quibus tamen paulò postea Sol emersit, sextâ parte Digiti unius in ejus Limbo deficiente, tunc cœptum numerare Vibrationes perpendiculi quarum 1485 compositæ unius Horæ Spatio peragebantur, deinceps observati,

| *Vibr. Comp* | *Hora deducta* h ′ | *Digit Defic* |
|---|---|---|
| 0 | 11 01 | 0 $\frac{1}{6}$ |
| 156 | 11 08 | 1 |
| 792 | 11 33 | 4 $\frac{3}{5}$ |
| 1200 | 11 49 $\frac{1}{6}$ | 6 |
| 1480 | 12 02 | 6 $\frac{2}{5}$ |

Jamque, vel paulò citiùs, Solis Limbus Orientalis transierat Meridianum, unde Phasium reliquarum deprompsi tempora.

*Vide Fig. 4.*

Post 10′ vel 12′ scrupula horaria, Digiti deficientes fuere saltem 6 $\frac{4}{5}$, certe non plures Digitis 7.

Ab hac Phasi Nubes densiores Solem excepêre, sub quibus dilituit usque ad finem fere Defectûs; eo tamen imminente rursus in clarum prodibat, ipsumque exitum Lunæ distincte notavimus, Hora 1 24′ $\frac{1}{3}$ post Meridiem.

*Wingfeldiæ*, novem circiter Milliaria à *Derbia*, Boream versùs, Amicus meus familiaris, *Imanuel Haltonus*, Armiger, Matheseos omnis admodum peritus, Initium notavit Hora 11 1′ mané. *Codnoræ*, duo ad Austrum à *Wingfeldia* Milliaria, unum Digitum deficientem vidit Cognatus meus, D. *Willson*, Hora 11 7′, mane; finem Hora 1 26′, P. M. quem rotunde tantum definit Dom. *Haltonus*, *sesquihoram circiter post Meredіem*, ego supputaveram antea e Tabulis,

| | *Carolinis.* h ′ ″ | | *Philolaicis.* h ′ ″ |
|---|---|---|---|
| Initium | 11 13 09 | Mané. | 11 24 33 |
| Maxim. Obscur. | 0 21 16 | P. M. | 0 36 13 |
| Visibilem ☌ | 0 29 49 | P. M. | 0 44 13 |
| Finem | 1 29 25 | P. M. | 1 48 11 |
| Digit. in max. Obs. | 6 24 $\frac{2}{7}$ | | Digit. 6 42 |

Omnes scilicet Phases, per utrumque Calculum, longe seriores quam cælitus apparuêre.

Luna

## ANNO MDCLXXI.

# *Johannis Flamsteedii* OBSERVATIONES Cœleftes.

**Maii 6 ♄ Vefperi.**

Lunæ tegebat 38 Leonis (cujus locus Tychonicus tunc ♍ 9° 56′, Latitudo 1° 20′ ½ Bor.) alto Jove 32° 52′ ad Occafum, unde Horam deduxi 9 16′ ½, P.M. fixâ Lunam fubitura altior apparuit infimâ margine Propontidis; ejus ab ea emerfionem non confpexi, fed priufquam ad maculæ Cafpiæ Latitudinem à Limbo Lunæ feparata fuerat, vidi Fixam, & Altitudinem Limbi fupremi Lunæ cepi 31° 54′, quo depreffior Fixa erat 7′ vel 8′ Scrupulis, Hora ergo 10 24′ ½: Ad Jovem deinde verfo Tubo, ejus etiam cœpi Altitudinem 22° 36′, unde Hora deducitur 10 25′.

**Septemb. 8 ♀tis Vefperi.**

Hora 7, Luna, in Umbris Terræ penitùs immerfa, fanguinei & cinericii Coloris apparuit, obfcurior tamen ab occidentali Margine; Initium ipfius Emerfionis, aliis intentus, non confpexi; fed deinceps notavi,

| h | ′ | |
|---|---|---|
| 7 | 20 | Pars fexta circiter Peripheriæ illuftrata. |
| 7 | 26 | Pars tertia ejufdem recuperata. |
| 7 | 43 | Dimidium lucidum. |
| 8 | 07 | Cafpia retecta. |
| 8 | 11 | Finis. |

Tempora cœpi ope minufculi Horologii, fingulos Horæ Scrupulos primos indicantis, ab Altitudinibus Lunæ (Quadrante novem tantum Digitorum Radio captis) correcti, quibus propterea minùs fidere velim; ni aliis à Dom. *Haltono, Wingfeldiæ*; & *Londini* à Dom. *Hookio*, habitis Obfervationibus, effent utique conformes. *Wingfeldiæ*, ut ad me, Octobr. 9, 1671, Literis datis, fcribit D. *Haltonus*, obfervata,

| h | ′ | |
|---|---|---|
| 7 | 12 | Prima Lux. |
| 7 | 41 ½ | Lucidum. |
| 7 | 54 ½ | Peripheriæ adhuc obfcura. |
| 8 | 02 ½ | Ejufdem. |
| 8 | 11 | Tota lucida. |

**Octobris 17 ♂tis**

Tubo longiori Pedum 14, Saturni Anfulæ haud adeò diftinctè videbantur, ut Noctibus Dierum aliquorum præcedentium, (etiamfi Aër, ni fallor, haud paulò exftiterit ferenior) fed exiles valde & tenues; ut etiam Noctibus Dierum 21 & 22 fequentibus; adeò, ut nifi de iis mihi antea innotuiffet, pro Radiis duntaxat Spuriis, à Vitro vel Aëre minùs rectè conftituto, prognatis forfan habuiffem.

Anfam, quæ ad dextram, alterâ lucidiorem & magis evidentem aliquando exiftimabam.

*Vide Fig.* 5 — **22 ☉ Mané.**

Hora 6 43′ (alto Jove 39° 30′) omnes quatuor Satellites ad finiftram ab ipfo, ut in quinta Figura apparuêre; intimus nimirum unum tantùm Diametrum à Limbo ejus diftans, proximus fefquidiametrum ab hoc, vel 2 ½ Diam. à Limbo Jovis, fub quo, in Linea Viæ Satellitum perpendiculari, alter apparuit, Semidiametrum ab eo diffitus. Remotiffimi à Limbo Jovis remotiore Micrometro cœpi Diftantiam 1257 = 7′ 31″. Ad Dextram Planetæ Fixa *f* apparuit, cujus à Limbo ejus remotiffimo capta Diftantia 580 = 3′ 28″, major quæ fuit & lucidior quovis Satellitum.

Jovis capta etiam Diameter 100 = 36″; ergo *a l* 34″, *l b* 1′ 30″, *b c* 18″, *m d* 7′ 31″, *l f* 3′ 29″, *l d* 11 ½ Diam.

**Novembr. 6 ☽**

Hora 4 46′, P. M. altâ *f* Pleiadum 7° 45′, Tubo minori, cujus tunc Longitudo 86 $\frac{1}{10}$ Polluces Pedis Anglicani, Diftantia Limbi Lunæ proximi, à media & lucida Pleiadum capta 4516 = 51′ 21″.

Hora

ANNO MDCLXXI.

## *Johannis Flamsteedii* OBSERVATIONES Cœlestes.

| | |
|---|---|
| Novembr. 6 ☽ | Hora 5 10′, P. M. alta eadem Fixa 10° 30′, Tubi Longitudo 85 ⁷⁄₁₀ Poll. isthæc Distantia repetita erat 5436 = 1° 02′ 11″. Lunæ Semidiameter Horizontalis é variis ejusdem Noctis Observationibus rite perpensis prodit 16′ 57″, propterea Distantia Centri Lunæ à lucidissima Pleiadum, Hora 4 46′, P. M. erat 1° 08′ 18″; sed Hora 5 10′, erat 1° 17′ 08″. |
| 7 ♂tis | Hora Mane, alto Jove 35° 15′, omnes quatuor Satellites apparuêre; duo scilicet ad dextram Jovis, totidemque ad sinistram; quorum qui ad dextram, duas circiter Joviales Diametros ab invicem distabant, & eorum qui Limbo proximus, tantum fere ab ipso. Intimus ad dextram Semidiametrum duntaxat à Limbo aberrat, remotissimi Distantiam à Limbo remotiori Jovis Dimensus sum 1246 = 7′ 25″; ab extimo verò, ad sinistram, Satellite 1706 = 10′ 12″. Hora 6 14′, alto Jove 41° 06′, vel citiùs, Satellites a in umbram Jovis seipsum condiderat; Immersionem ejus, aliis intentus, non notavi. |
| 10 ♀ris | Satellites, ut in septimâ Figurâ, vidi dispositas, tunc mensuratæ Distantiæ, Hora 5 27′ mane, alto Jove 38°. |

| | | ′ ″ |
|---|---|---|
| d c | 1217 = | 7 16 |
| l c | 787 = | 4 42 |
| md | 498 = | 2 59 |

Deinde Hora 6 30′, alto Jove 42° 30′. *Vide Fig. 7*

| | | |
|---|---|---|
| d b | 1130 = | 6 45 |
| l c | 755 = | 4 31 |
| md | 495 = | 2 58 |

Nocte sequente, Saturni ansatum Sidus per Tubum ad dextram apparuit lineæ rectæ ductæ per 25$^{am}$ & 26$^{am}$ Aquarii; illius Locus tunc Tychonicus Piscium 12° 37′, Latitudo 1° 00′ Meridionalis; hujus veró Locus Piscium 12° 32′, Latitudo etiam Meridionalis 2° 49′: Tubi tunc Longitudo 85 ⁷⁄₁₀, per quem ejus à 26ª Distantia capta 3758 = 43′ 00″, & à 25ª 6171 = 1° 10′ + Heckeri Ephemerides ad hoc Tempus Planetam exhibent in Piscium 13° 04′, cum Latitudine Australi 2° 11′, longe scilicet promotiorem quam Observatio ipsum ostendit. *Vide Fig. 8*

| | |
|---|---|
| Decemb. 4 ☽ | Paulo ante Solis Exortum, Veneris Sidus longiori Tubo consideratum, ejusdem fere Magnitudinis & Figuræ apparuit, quam exhibui; ejus capta Diameter erat 168 = 1′ 00″, cujus Pars sexta circiter illustrata. Apertura super Vitrum objectivum erat ½ unius Digiti, per quam Limbus Planetæ exterior satis bene definitus apparuit; interior vero (lucis terminus) inæqualis, turbidus & scabrosus, Cuspidesque aliquantulùm obtusæ. *Vide Fig. 9* |
| 6 ☿rii Mané. | Altâ Venere 13° 34′, vel paulo antea, Mars distabat à Lance Libræ Australi 3765 = 22′ 37″, quâ humilior apparuit, dimidio circiter ejusdem Distantiæ; deinde hujus Altitudinem cœpi 19° 12′, Lancis austrinæ nunc Locus Scorpii 10° 29′, Latitudo 0° 26′ Bor. Martis in Ephimeride Heckeri Latitudo 0° 43′ Bor. cujus ergo Locus, in Consequentia, Fixæ. *Vide Fig. 10* |

ANNO MDCLXXII.

| | |
|---|---|
| Januarii 1 ☽ Vesperi | Majori Tubo cui Aperturam unius solummodo Digiti lentem ocularem, Radios ad secundum ab eo Digitum colligentem adeptâram; Saturni Sidus inspectum, distinctè admodùm rotundum nec Ansis ullis (quoad cernere potuerim) stipatum apparuit; sed |

ANNO MDCLXXII.

## *Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

♃ recens exortus iiſdem Vitris conſideratus, Radiorum Capillitio turbide vibrantium circundatus; omnes vero ejus Satellites ad dextram ab eo, ſat bene videbantur, extimus non plus 4 aut 5 Diametros ab eo diſtans, intimus vix unius dimidium à Limbo ejus remotus.

Februarii 1 ☿^rii

*Vide Fig.* 11

Circa 8 h P. M. omnes 4 Satellites, ut in undecima Figura, circa Jovem apparuêre, è quibus primum, qui proximus à Leva ſtabat, in Umbram Jovis inceſſurum; tertium, qui ad dextram ſolus, ſub ejus faciem tranſiturum inveni (per Numeros clariſſimi Caſſini) ante Horam undecimam: præſtolavi propterea Eclipſin primi quæ tunc accidebat, cum ♃ altus erat 32° 20′, i. e. Hora 10 36′, P. M. $\frac{1}{4}$ circiter Diametri Jovialis, à Limbo ejus ad punctum *b*, Hora 10 38′, alto Jove 32° 50′, certe non apparuit. Deinceps, Hora 10 52′, alto eo 34° 20′, tertius diſtabat $\frac{1}{4}$ Diametri à Limbo ejus, adeò ut Linea ducta ab hoc, Lineæ Satellitum perpendicularis, Jovis Limbum accuratè tangeret, quoad potui conjicére, erat nunc infra Zonam latam apparenter, & $\frac{1}{3}$ Quadrantis Peripheriæ ab Interſectione Viæ Satellitum cum Limbo Jovis ad punctum a.

Februarii 16 ♀^i

*Vide Fig.* 12

Cœlo ſereno, majori Tubo longo tunc Digitos 164 $\frac{2}{11}$ Jovis Sidus aberrat à 24^a Leonis dimidium circiter Lunaris Diametri, oculari per Tubum eſtimatione; Fixæ tunc Locus Tychonicus ♍ 14° 08′, Latitudo 1° 40′ Bor. Alto Jove 13°, Diſtantia Limbi Jovis remotiſſimi à Fixa erat 2815 = 16′ 54″; & rurſus, alto Jove 18° 10′, i. e. Hor. 7 44′, iſthæc Diſtantia 2821 = 16′ 56″, & Differentia Altitudinum Limbi Jovis apparenter inferioris, & Fixæ 125 = 45″, hanc tamen potius juſto majorem fuiſſe menſuram exiſtimo, ſed non audeo aſſerere, quippe vibrabat admodum Planeta, & Limbus ejus vix ſatis terſus apparuit; tres tantùm prope ipſum hâc vice ♃ habuit Satellites, quartus ſub ejus Facie, ut Numeri oſtendunt Caſſiniani, latitabat.

17 ♄^i Veſperi

*Vide Fig.* 13

| *Cœlo ſereno.* | ♃^is *Alt.* | *Hor. ſup.* | |
|---|---|---|---|
| | ° ′ | h ′ | ° ″ |
| | 11 54 | 7 10 | ♃^i Di. 125 = 00 46 |
| | 14 10 | 7 14 | ♃ f 3690 = 22 10 |
| | 15 54 | 7 25 | f a 1505 = 09 03 |
| | 17 30 | 7 36 $\frac{1}{2}$ | ♃ f 3700 = 22 13 |
| | 29 22 | 8 59 | vel uno forſan citiùs ſcrupulo horario. Satelles Jovis primus qui ad ſiniſtram apparuit, paulo ſupra Viam Satellitum, ſed plus à Zona inferiori, diſparuit; adeo Jovi propinquus ut Diſtantiam definire non potueram. |
| | 30 20 | 9 07 $\frac{2}{3}$ | ♃ f 3755 = 22 32 |

18 ☉^is Veſperi.

♃ f eſt Diſtantia Limbi remotioris Planetæ à Fixa; f a, Differentia Altitudinum Limbi ejus inferioris & Fixæ.

| ♃^is *Alt.* | *Hor. ſup.* | |
|---|---|---|
| ° ′ | h ′ | ° ″ |
| 11 24 | | ♃ f 4770 = 21 50 |
| 12 00 | 6 59 $\frac{1}{2}$ | f a 2770 = circiter forſan unâ Cochleæ revolutione. |

vel 20″ major eſſe debuit; etenim tum hâc, tum præcedente Nocte, cum Differentias Altitudinum Limbi Jovis, & Fixæ caperem, erat ille extra Indicis Extenſionem; ſed exiguum aliquid duntaxat veſperâ Diei 17, cujus propterea Obſervationem certiorem exiſtimo.

Ab

ANNO MDCLXXII.

## *Johannis Flamsteedii* Observationes Cœlestes.

Ab his Observationibus supputavi,

| Februarii D. h ′ | Ang. Circ. Vert & Ecl. ° ′ | ♃ in Ant. ✶ ′ ″ | Cum Lat. minori. ′ ″ | ♃ is Locum ♍ ° ′ ″ | Latitudinem Bor. ° ′ ″ |
|---|---|---|---|---|---|
| 16 07 44 | 59 18 | 9 16 | 13 30 | 13 58 00 | 1 26 30 |
| 17 07 25 | 59 45 | 17 25 | 13 14 | 13 49 54 | 1 26 46 |
| 18 07 00 | 60 05 | 25 12 | 12 45 | 13 42 04 | 1 27 15 |

Locus Jovis in Ephemeride Heckeri, Feb. 16, Hora 7 44′, erat 13° 45′ ♍, cum Latitudine Sept. 1° 29, nimirum ab Observatione in Longitudine deficiens 13 Min. quam in Latitudine excedit 2′ ½.

At D. Streetio Fixæ Locus tunc in ♍ 14° 03′ 54″, cui propterea Planeta esset in ♍ 13° 54′ 38″. Calculo tamen à Tabulis ejus Carolinis Planeta reperitur in ♍ 13° 48′ 39″, cum Latitudine boreali 1° 29′ 31″. A Cœlis in Longitudine deficiens 5′ 59″, quos in Latitudine exuperat 3 Min. si Fixæ restitutioni Tychonicæ fidendum sit.

23 ♀ ris Hora 11 19′ ½, P. M. altâ occidentali Pleiadum b, 9° 50′, ejusdem capta Distantia à Cuspide Lunæ proximo 1995 = 11′ 58″; divertens deinde ad Stellæ Altitudinem (ostensam Quadrante 20 Dig. Radio ad Tubi latus affixo) notandum, & continuo reversus, Stellam (quippe tunc à Luna tectam) non comperi; interea Luna descenderat Minuta 10, simulque tantundem Fixa, quam subiisse Lunam Hor. 11 20′ ½ ex sequenti Phasi colligo; etenim alta Fixa c 8° 43′, i. e. Hora 11 30′ Luna tegebat Stellam c Pleiadum, cujus à Cuspide Lunæ proximo tunc erat Distantia 2765 = 16′ 35″. Intervallum Temporis inter hujus & præcedentis Occultationes calculo repertum 9′ 27″, quod Tempori hujus Phasis sublatum dat præcedentis, ut supra, constitutam Immersionem. Hora 11 37′, altâ Fixâ e Pleiadum 7° 46′ ipsa Lunam subibat à Cornu Lunæ superiori apparentèr, inferiori verè distans 3765 = 22′ 36″: unde visibilem Centri Lunæ Locum ad hoc Momentum colligo ♉ 24° 49′ 35″, cum Latitudine Septentrionali 4° 19′ 32″; sed admissâ Æquinoctiorum annua Recessione Streetianâ in ♉ 24° 45′ 06″: Locus autem Lunæ à Tabulis Carolinis deductus erit ♉ 25° 00′ 00″, cum Latitudine 4° 18′ 26″, justo scilicet promotior 14′ 54″; cum majori observatâ Latitudine 1 Min. Vide Epil. ad Tab. Horroccii, pag. 493; & Acta Philos. pag. 5034 & 5035. *Vide Fig.* 14

Martii 4 ☾ Vesp. Circa 10ʰ ½, P. M. Luna juxta editas Conjecturas transitura erat 23′ supra 35ᵐ ♍, cujus Locus Tychonicus tunc ♎ 11° 38 ½, Latitudo 3° 23′ Austr. Hora 11° 01′ ½, alta Fixa 24° 46°, ipsa distabat à proximo margine Lunæ 2555 = 15′ 20″, cujus superior Margo in eadem ferè Altitudine cum fixa fuit, deinde alta Fixa 26° 20′, Lunæ Limbus proximus à Fixa iterum distabat 2725 = 16′ 21″; sed hæc Altitudo tempori indigitando non omnino commoda, quippe Fixa jam haud procul aberrat à Meridiano; in præcedenti Annotatione, propter latiorem Limbi Lunæ à Fixa Distantiam, num in eadem Altitudine cum Fixa fuit, vel paulo altior aut depressior determinare non potueram; certe tamen in eadem Altitudine fuit quam proxime. Lunæ paulo ante primam Animadversionem capta Diameter 5157 = 30′ 57″. *Vide Fig.* 15

15 ♀ ris Vesperi. Jove retrogrado per 38ᵐ Leonis revertente, cujus Locus Tychonicus ♍ 9° 57 ½, Latitudo Borealis 1° 20′ ½, alto eo 32° 52′, i. e. Hora 7 25′, Limbus Jovis remotissimus à Fixa distabat 5702 = 34′ 03″, eratque Differentia Altitudinum Limbi Jovis superioris & Fixæ 3450 = 20′ 35″. Sed de hac Mensura omnino certus esse non poteram; etenim cum Instrumentum adeo disposuissem, ut Indiculorum Margines essent Horizonti paralleli, si alter Fixam tangeret, Planeta extra Extensionem alterius extaret aliquantulum; duo duntaxat Satellites, primus scilicet & secundus circa Jovem hâc vice *Vide Fig.* 16

ANNO MDCLXXII.

## *Johannis Flamſteedii* OBSERVATIONES Cœleſtes.

vice conſpiciebantur, aliis duobus ſub ipſo latentibus. Advertendum præterea, quod neque hâc neque heſternâ Nocte Fixam nudis Oculis reperire potui, quæ per Teleſcopium valde clare videbatur.

*Vide Fig.* 17 — Martii 16 ♄ni — Nocte ſequenti, alto Jove 36° 00′, i. e. Hora 7 48′ P. M. ipſius Limbus remotior à Fixa diſtabat 4585 = 27′ 22″, eratque Differentia Altitudinum Centri Jovis & Fixæ 2675 = 16′ 00″. Hanc præciſiorem Obſervationem exiſtimo quam quæ heri facta fuit. Jovis Altitudo capta fuit Quadrante minori 8 Digitorum quoad Radium.

*Vide Fig.* 18 — 19 ♂li Veſperi

| ♃ *Alt.* ° ′ | *Hor. ſup* h ′ | | ′ ″ |
|---|---|---|---|
| 29 35 | 6 45 | f a | 438 = 2 36 |
| 30 35 | 6 52 | f a | 428 = 2 33 |
| 31 00 | 6 55½ | ♃ f | 1788 = 10 41 |
| 32 14 | 7 05 | f a | 366 = 1 59 |
| 33 00 | 7 11 | ♃ 4 | 1601 = 9 34 |
| 33 52 | 7 17 | 4 f | 1243 = 7 26 |
| 34 10 | 7 20½ | f a | 248 = 1 29 |
| 34 45 | 7 25½ | f a | 222 = 1 22 |
| 36 00 | 7 36 | ♃ f | 1778 = 10 37 |

Tres interea circa Jovem apparuere Satellites, quorum unus erat ad lævam ipſius, duo ad dextram; horum extimus duas ferè ♃lis Diametros à Limbo ejus diſtabat, alter ipſi jam appropinquabat, ut,

| ♃ *Alt.* ° ′ | *Hor. ſup* ° ′ | |
|---|---|---|
| 37 08 | 7 46 | Putabam Limbum Jovis tangere. |
| 37 30 | 7 49 | Dubitavi an videbam necne. |
| 37 40 | 7 50½ | Certe diutius videre non potui, jamque Fixa erat in eadem Altitudine cum Limbo Jovis ſuperiori. |
| 43 30 | 8 56 | Fixa altior erat Limbo Jovis 158 = 0′ 57″, & Jovis f 1718 = 10′ 15″; jam primus Satelles apparuit, unam ejus Semidiametrum à Limbo ad dextram ipſius. |

20 ☿ii Veſperi — Melius præparato Micrometro, ſequentes habitæ Obſervationes nonnihil credo præcedentibus accuratiores.

*Vide Fig.* 19

| ♃ *Alt.* ° ′ | *Hor. ſup* h ′ | | ′ ″ |
|---|---|---|---|
| 30 00 | 6 44½ | f a | 432 = 2 35 |
| 30 47 | 6 51 | f a | 434 = 2 36 |
| 32 00 | 6 59½ | ♃ f | 1228 = 7 21 |
| 38 30 | 7 54½ | f a | 603 = 3 36 |
| 40 20 | 8 03 | Satelles ½ Diam. apparuit à Limbo Jovis. | |
| 40 50 | | f a | 680 = 4 04 |
| | | ♃ f | 1243 = 7 26 |
| | | ♃ | 128 = 0 46 |

Angulus Circuli verticalis in Fixam incidentis cum Ecliptica, Hora 6 51′, P. M. erat 35° 39′. Statuo tunc Diſtantiam Centri Jovis à Fixa 7′ 00″, & Differentiam Altitudinum ejuſdem & Fixæ 2′ 14″; unde Locum Planetæ colligo 2′ 03″ in Conſequentia Fixæ, cum majori Latitudine 6′ 42″. Locus Fixæ Tychonicus tunc mihi ♍ 9° 57′ 20″, Latitudo 1° 20′ ½ Sept. Jovis ergo Locus ♍ 9° 59′ 23″, cum Latitudine 1° 27′ 12″, qui in Ephimeride Heckeri eſt ♍ 9° 49′, cum Latitudine 1° 29′, aberrans in Longitudine 13 Min. in Latitudine 2′. Equi-

ANNO MDCLXXII.

## *Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

Equinoctiorum annua Receſſio D. Streetio 48″, Fixæ ergo huic Locus ♍ 9° 54′ 00″, & Jovis ♍ 9° 56′ 03″, qui calculo à Tabulis Carolinis reperitur in ♍ 9° 50′ 00″, tum Latitudine Boreali 1° 28′ 57″, in Antecedentiâ Loci obſervati 6′ 03″, cum majori Latitudine 1′ 45″.

Martii 27 ☿ ii — Circa Horam 8, P. M. alto Jove 41° ½, quartus Jovis Satelles aberat à Limbo ejus remotiori 1591 = 9′ 30″, à citeriore verò 1463 = 8′ 42″. Jovis ſemel capta Diameter 130 = 46″, hanc tamen Menſuram juſtò latiorem exiſtimabam; deinceps ſæpius habui 128 = 45″ ½ hujus ergo Satellitis apparens Elongatio à Centro Jovis in ipſius Semidiametris 23 ſd. 51′: Motus ejus à Jove, ſecundùm D^ni^ Caſſini Numeros, Hora 8, erat 2 s. 19° 35′; at juxta alios D^ni^ Towneleii, 2 s. 20° 20′, aberat ergo etiamnum Satelles à ſumma ejus Elongatione 24′ ſcrupulis ſexagenariis Semidiametri, quæ propterea eſſet 24 ſd. 15′, hanc Caſſinus ſtatuit 23, ſed D. Townleius 24 ⁷⁄₁₀ Semidiametros Joviales. *Vide Fig.* 20

28 ♃ ii — Nocte ſequente, Hora . . . . alto Jove 40°, Satelles idem aberat à Limbo ejus proximo 1473 = 8′ 45″, à remotiſſimo verò 1598 = 9′ 32″, cujus propterea apparens Elongatio à Centro Jovis Semidiam. ipſius 23 ſd. 58′. Motus Satellitis à Jove, ſecundum Cl. Caſſini Numeros tunc erat 3 s. 11° 13′, & propterea extima eſſet Elongatio 24 ſd. 24′.

Maii 13 ☽ — Poſt mediam Noctem ſequentem Martis Sidus obſervatum à 16ᵃ ♒, cujus Locus Tychonicus tunc ♒ 24° 12′ ½ Latitudo Auſtralis 2° 00′.

*Vide Fig.* 21

| *Alto ♂^tc^* ° ′ | *Hor. ſup.* h ′ | |
|---|---|---|
| 9 49 | 14 29 ½ | ♂ f 4068 = 24′ 17″, ſcilicet intra Limbum proximum Planetæ & Fixam, cum quâ jam erat in eodem Circulo verticali. |
| 11 12 | 14 44 | ♂ f 4088 = 24 24 |
| 12 00 | 14 51 | Planeta deceſſerat à Circulo verticali ad dextram, eratque Azimutharum ipſius & Fixæ in eâ Altitudine Diſtantia 178 = 1′ 03″. Fixam nudis Oculis percipere non potui, nec niſi obſcurè bipedali Tubo. |

Hora 14 29′, Angulus Circuli verticalis per Fixam deſcendentis cum Eclipticâ Calculo inventus 82° 26; ergo Fixa in Antecedentiâ Planetæ 3′ 11″, cum minori Latitudine Auſtrali 24′ 04″, & Planetæ Locus 24° 15′ 40″ Aquarii, cum Latitudine Meridionali 2° 24′ 04″.

Locus ejus in Ephemeride Heckeri Aquarius 24° 11′, cum Latitudine 2′ 26″, ab obſervatâ Longitudine deficiens 4 Min. Latitudinem exuperans obſervatam 2 Min.

Aſſumptâ tamen Equinoctiorum Receſſione Carolinâ, Planeta reperitur in Aquario 24° 12′ 17″; ſed è Tabulis Carolinis ejus locus ſupputatus ♒ 24° 17′ 22″, cum Latitudine Auſtrali 2° 27′ 29″, promotior in Longitudine quàm obſervatus fuerit 5′ 05″, cum majori Latitudine 3′ 05″.

24 ♀ tis — Redeunte Jovis Sidere ad 38^am^ Leonis, cujus Locus Tychonicus nunc ♍ 9° 57′ 20″, cum Latitudine 1° 20 ½ Boreali, Hora 10 00′ ½, alto Jove 24° 42′, Limbus ejus remotiſſimus à Fixâ diſtare viſus 3385 = 20′ 12″; & Hora 10 05′, alto ipſo 24° 10′, Differentia Altitudinum Limbi Jovis ſuperioris & Fixæ capta 1351 = 8′ 03″, & Limbi ejus remotiſſimi à Fixa iterum Diſtantia 3368 = 20′ 06″, Satellites ut in Figura circa ipſum diſpoſiti apparuere, & in Linea horum Viæ perpendiculari ſupra extimum ad ſiniſtram, Fixula g, 13′ à Jove, & 9′ circiter à Satellite diſtans. *Vide Fig.* 22

## ANNO MDCLXXII.

## *Johannis Flamsteedii* OBSERVATIONES Cœleftes.

| | | ♃ᵉ Alt. ° ′ | Hor. ſup. ° ′ | | | ′ ″ |
|---|---|---|---|---|---|---|
| | Maii 26 ☉ⁱˢ Veſp. | | | | | |
| *Vide Fig.* 23 | | 33 30 | 8 46 | ♃ f | 1730 = | 10 19 |
| | | 31 50 | 9 00 | f a | 1138 = | 6 47 |
| | | 29 10 | 9 20 | f a | 1158 = | 6 36 |
| | | 27 20 | 9 33 | ♃ a | 1273 = | 7 35 |
| | | 27 00 | 9 36 | ♃ f | 1721 = | 10 17 |
| *Vide Fig.* 24 | 27 ☽ Veſperi. | 31 24 | 8 59 | ♃ f | 1058 = | 6 19 |
| | | 31 30 | 9 07 | f a | 359 = | 2 08 |
| | | 29 13 | 9 16 | f a | 369 = | 2 10 |
| | | 28 10 | 9 23 | ♃ f | 1057 = | 6 18 |
| *Vide Fig.* 25 | 28 ♂ⁱˢ Veſperi. | 31 08 | 8 57 | ♃ f | 1058 = | 6 18 |
| | | 28 10 | 9 19 | f a | 634 = | 3 47 |
| | | 26 30 | 9 31 | f a | 642 = | 3 50 |
| | | 26 10 | 9 34 | ♃ f | 1060 = | 6 20 |

30 ♃ⁱˢ Alto Jove 26° ½, i. e. Hora 9 30′ ♃ f erat 2652 = 15′ 58″, Fixa jam altior apparuit quàm Planetâ, inter cujus Limbum remotiſſimum & ipſam omnes cum Diſtantiæ ♃ f, tum Altitudinum Differentiæ fa captæ fuere. Jovis capta Diameter 108 = 39″, quamobrem Partes 54 = 19″ ½ ab obſervatis Menſuris ubique ſubducendæ ut Centri Jovis à Fixa Diſtantiæ, & ab eâ Altitudinum Differentiæ haberi poſſint; notandum præterea quod evidentiæ cauſa Planetæ Diametrum duplo majorem juſto in his Figuris ubique deſcripſi. *Vide Fig.* 26

Ad Diem 27ᵐ Hora 9 07′, P. M. ab his Animadverſionibus Diſtantiam Centri Jovis à Fixa ſtatuo 6′ 00″, & Azimuthorum Intercapedinem 1′ 50″, Anguli Parallactici complementum Calculo tunc inveni 79° 49″, & propterea Planetam in Antecedentiâ Fixæ 2′ 50″, cum minori Latitudine 5′ 18″; Fixæ ergo ut ſupra, conſtitutis Loco & Latitudine, tenebit Planeta ♍ 9° 54′ 40″, cum Latitudine Sept. 1° 15′ 11″.

Locus ejus in Ephemeride Heckeri nunc ♍ 9° 43′ ½, Latitudo 1° 17′ Septent. aberrans in Longitudine 11 Minuta, in Latitudine 2′.

Sed Fixæ Locus D. Streetio ♍ 9° 54′ 09″, & Planetæ propterea ♍ 9° 51′ 19″; at è ſuis Tabulis tunc ſupputatus ♍ 9° 46′ 28″, cum Latitudine Sept. 1° 16′ 28″, aberrans nimirum in Longitudine 4′ 51″, in Latitudine 1′ 17″.

Junii 16 ☉ⁱˢ Poſt mediam Noctem ſequentem, ♂ᵗⁱˢ Sidere ad 27ᵘᵐ & 28ᵘᵐ ♒ⁱⁱ appropinquante (quarum præcedens tenet ♓ⁱᵘᵐ 11° 44′, cum Latitudine Auſtrali 3° 58′ ½, ſequens verò ♓ 12° 12′, cum Latitudine 4° 10′ ½ etiam Meridionali) altâ Fixâ 22° 20′, i. e. Hora 14 47′, ejus capta Diſtantia à præcedenti Fixarum 3078 = 18′ 21″, quâ altior apparuit unum ſaltem ſcrupulum, ſed non plus duobus oculari per Tubum æſtimatione. Nubes enim Planetam ſubtercurrentes juſtiorem Menſuram capi prohibuere.

17 ☽ Poſt mediam Noctem ſequentem, frequentes fuere Nubeculæ & Vapores tenues ſub Cœlis, per quos Planeta obſervatus erat à ſequenti Fixarum.

| | Altâ ✱ⁱ ° ′ | Hor. ſup. ° ′ | | | ′ ″ |
|---|---|---|---|---|---|
| *Vide Fig.* 27 | 12 06 | 13 01 | ♂ f | 3975 = | 23 44 |
| | 15 58 | 13 34½ | ♂ a | 2728 = | 16 17 |
| | 16 20 | 13 58 | f a | 2813 = | 16 48 |

Denſiores

ANNO MDCLXXII.

## *Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

Junii 17 ☽

Denſiores Nubes ſuccedentes, Fixarum capi Intercapedinem aut Martis Diametrum non permiſere, hanc tamen fuiſſe 20″ exiſtimo: Si aliqua prodibit Differentia inter Locos Martis, ab obſervata Diſtantia, cum Altitudinum Differentia & Azimutharum ſupputatos, illi potius qui ab Altitudinum Differentia eruetur fidendum duco, quoniam ejus, ni fallor, certior erat Menſura. Heſternæ Noctis Obſervationes Erronis Locum optimè poſſint oſtendere, hujus Latitudinem.

Inſpecto deinde eodem Tubo Saturni Sidere, protuberans aliquid ad utrumque ejus latus potui percipere; ſed vix adeo clarè & diſtinctè ut in veſpertinis Decembris præteriti Obſervationibus, vel propter Aeris vapores, vel naſcentis Diei lucem.

Auguſti 8 ♃ⁱˢ Veſp.

Interſtitium captum inter 27ᵐ & 28ᵐ Aquarii, prope quas Martis Sidus tranſierat Die 17 & 18 Die Junii præteriti) erat $5435 = 32' \ 11''$, & 28ᵃ à 29ᵃ, $5010 = 29' \ 39''$; ſed hanc credo à Refractionibus juſto arctiorem exhibitam Intercapedinem; deinceps enim, cum plus ab Horizonte elevarentur, ſemper latiorem habui.

29 ♃ⁱˢ

Martis Acronici in ♓ 17 Diameter pluribus & ſæpe repetitis Experementis inventa $92 = 33''$.

Septemb. 2 ☽

Martis iterum Diameter $93 = 33''$, & Saturni (Orbis ſcilicet ipſius) $69 = 25''$; ſed hujus potius nimiam fuiſſe Menſuram metuo.

16 ☽

Hujus Diei Veſpera Obſervationes ordiri inſtitueram, quas pro Parallaxi Martis inveſtiganda deſignâſſem, cujuſque in Gratiam, accuratum Ephemerida, cum Locum ipſius tum Latitudinem ad Horam 8ᵐ cujuſque Diei à 15° hujus Menſis, ad 3ᵘᵐ Octobris oſtendentem (à D. Oldenburgo Actis ejus Philoſ. num. 86, pag. 5041, cum Monito meo hujus Opportunitatis inſertum) è Tabulis Carolinis ſupputaveram: Patris tamen Negotiis aliquibus repoſcentibus, hoc ipſo Die iter ſuſcipere in Comitatum Lancaſtriæ coactus fui. Verebar profectò ne hic Caſus omnem mihi Laborem & Spes irritas redderet; ſed meis conatibus non omnino averſi Cœli, in Domus Amici mei generoſiſſimi R. Townleii (Micrometri quod ab eo Towneleianum appellamus authore, omniſque Matheſeos peritiſſimi) divertere permiſere. Towneleium veni Septembris 18, ubi eadem ipſa veſpera adſui, dum D. Petrus Giffordus, ipſi qui à Domeſticis, dimenſus eſt

| | | | | | | ′ ″ |
|---|---|---|---|---|---|---|
| 18 ☿ʳⁱⁱ | Hora 11 00′ | ♂ | S | 1705 | = | 23 35 |
| | | ♂ | A | 1500 | = | 20 45 |
| | | A | S | 2219 | = | 30 41 |

*Vide Fig.* 8

21 ♄ⁱ

Hora 6 45′, minori Tubo longo tunc Dig. 73 ½, Planeta altior apparuit, ac 26ᵃ S. ut in Figura, ejuſque Limbus remotior à Fixa aberat $187 = 1' \ 18''$, & Margo ipſius inferior unam ferè Diametrum Planetæ ſupra rectam per hanc & præcedentem Fixam productam; hanc autem Intercapedinem vix adeo latam putabat Dominus Gifford, Limbum Erronis Fixæ proximum, vix duos Martis Diametros ab ea diſtare utrique putabamus. *Vide Fig.* 10

Derbiam domumque reverti Die 25, feſſus tamen ab Itinere, nihil ea Nocte obſervavi; ſequenti Die, Cœlum valde ſerenum exiſtens, Opportunitatem præbuit exoptatiſſimam ſequentes Obſervationes peragendi.

*Alta*

## ANNO MDCLXXII.

## *Johannis Flamsteedii* Observationes Cœleftes.

*Vide Fig.* 30 — Septemb. 26 ♃ⁱˢ Vefperi.

| Alta ✱ ° | ′ | Hor. sup h | ′ | | | ′ | ″ |
|---|---|---|---|---|---|---|---|
| | | | | ♂ p | 2055 = | 12 | 17 |
| 15 | 00 | 7 | 03 | ♂ s | 4836 = | 28 | 54 |
| | | | | A s | 5098 = | 30 | 20 |
| | | | | ♂ p | 4840 = | 28 | 55 |
| 19 | 10 | 7 | $44\frac{2}{7}$ | ♂ s | 2071 = | 12 | 12 |

Deinde, eadem Nocte, Planeta in eadem ferè Altitudine ad Occafum à Meridiano & Gradu nonagefimo exiftente.

*Vide Fig.* 31

| Alta ✱ s ° | ′ | Hor. fupp. h | ′ | | | ′ | ″ |
|---|---|---|---|---|---|---|---|
| 18 | 00 | 12 | 41 | ♂ p | 2098 = | 12 | 32 |
| 17 | 25 | 12 | 47 | ♂ s | 5054 = | 30 | 13 |
| 16 | 45 | 12 | 54 | ♂ s | 2083 = | 12 | 27 |
| 14 | 40 | 13 | 13 | ♂ p | 5076 = | 30 | 20 |

In penultimâ Animadverfione Fixa p remotior apparuit à Meridiano, reveta ipfi erat propinquior quam Planeta unâ ejus Diametro: omnes Diftantiæ captæ fuere, pro More mihi ufitato, inter Limbum Martis remotiffimum & Fixas, è quibus quamobrem fi 15″ fubducentur, veræ fient Diftantiæ Centri Martis à Fixis; ejus enim Diameter tunc erat 30″.

*Vide Fig.* 32 — 28 ♄ⁱ Vefperi.

| Alt. ✱ p ° | ′ | Hor. fupp. h | ′ | | | ′ | ″ |
|---|---|---|---|---|---|---|---|
| 13 | 50 | | | ♂ p | 3088 = | 18 | 28 |
| 15 | 50 | 6 | 58 | ♂ s | 6373 = | 38 | 06 |
| 17 | 25 | 7 | 17 | p a | 3066 = | 18 | 20 |
| 18 | 00 | 7 | 23 | p a | eadem etiamnum. | | |
| | | | | p s | 5428 = | 32 | 27 |
| | | | | A s | 5055 = | 30 | 13 |
| | | | minori Tubo | A p | 4983 = | 57 | 04 |

Loci & Latitudines Fixarum fecundùm Tychonem adhibita annua Receffione Æquinoctiorum 50″ nunc funt.

| | | ° | ′ | ″ | Lat. Auft. h | ′ | | fed Hevelio. ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|
| ♒ⁱⁱ 26ᵉ | in ♓ | 12 | 32 | 47 | 2 | 49 | | 2 | 47 | 23 |
| 27 P. | | 11 | 42 | 47 | 3 | 58 | ½ | 3 | 55 | 36 |
| 28 S. | | 12 | 10 | 48 | 4 | 10 | ½ | 4 | 12 | 36 |
| 29 A. | | 12 | 14 | 17 | 4 | 44 | | | | |

Scribit prætereà ad me clariffimus J. Hevelius, Gedani literis datis, Junii 24, 1676, harum Fixarum loca Tychonica duo integra Minuta prima à Veritate aberrare, Latitudines effe ut fupra, omnino meæ correctioni confentientes; quæ Differentiam inter Latitudines 27ᵉ & 28ᵉ quinis & paulo amplius fcrupulis primis majorem reddit, quam nobilis Tycho conftituerit. Sed de his plura in Tractatulo de Martis ab Obfervationibus deducta Parallaxi.

29 ☉ⁱ — Martis Diameter 78 = 28″.

Martis

## ANNO MDCLXXII.

# *Johannis Flamsteedii* OBSERVATIONES Cœlestes.

**Octobris 5 ♄i Vesperi.** Martis Sidere ad 26um Aquarii (cujus Locus & Latitudo ut supra) appropinquante, Hora 6 14′, P. M. alto eo 13° 52′, Limbi ejus remotissimi à Fixa Distantia capta est 4528 = 27′ 04″, tuncque adeò disposito Micrometro, ut Indices ejus lineæ per Planetam & Fixam incedenti, essent perpendiculares, Quadrante minusculo ejus Margini inferiori applicato, Perpendiculum super ipsum abscindebat 38° à læva; Angulus ergo f ♂ p in Cœlis 51 gr. deinde Hora 7 24′, alto Marte 21° 00′, isthæc reperta Distantia 4518 = 27′ 00″, & Inclinatio supra Quadrantem 45°, at in Cœlis 41°. *Vide Fig. 33*

**7 ☽** Post 8h Vesperi ♂ f 1978 = 11′ 49″, & jam Planeta per Tubum apparuit ad sinistram à Circulo verticali per Fixam decidente 176 = 1′ 03″; sed hanc Mensuram non omnino accuratam affirmare audeo, quoniam Ventus Tubum interdum agitabat: Deinde rursus Planetæ à Fixa capta Distantia 1978 = 11′ 49″, & Altitudo lucidæ Pleiadum 26° 00′, è quâ Horam deduxi 8 48′, P. M. *Vide Fig. 34*

**11 ♀ris Vesperi.** ♂ f erat 5220 = 31′ $\frac{1}{4}$, jamque paulo ante prætererat Meridianum, Differentiam Altitudinum ipsius & Fixæ ob latiorem Distantiam commodè capere non potui; Planetæ semper circa medium Obscuritas aliqua apparuit, quam ut potui in 35a Figurâ adumbravi. *Vide Fig. 35*

**12 ♄i Mané.** Hora 6 09′, alto Mercurio 5° 10′, ipse distabat à 9a Virginis 1874 = 21′ 32″, eratque Inclinatio ☿ * a supra Quadrantem 5° vel 4° $\frac{1}{2}$, sed in Cœlis correcta 5°.

**13 ☉i Vesperi.** Martis capta Diameter 70 = 25″, & Saturni 60 = 21″. *Vide Fig. 36*

**22 ♂tis Mané.** Mercurii appulsum expectavi ad 17um Virginis, Cœlum erat ad Votum serenum, Planetamque per Tubum septempedalem satis clarè conspexi; Fixam tamen è quá juxta Heckeri Ephemerides 30′ duntaxat Scrupulos primos distare debuit, reperire non potui, vel Diei nascentis luce, vel Horizontis Vaporibus prohibentibus.

Deinde alto Mercurio gra. 10, longiorem Tubum ad ipsum adhibui; sed jam fortiore Diei luce prohibente, nec Fixam potui reperire, ☿ii tamen cœpi Diametrum 45 = 16″, quæ forsan aliquantulo minor esse debuisset, ad Syrium enim converso Tubo, ejus inveni Diametrum 42 = 15″, quam Diametro Planetæ æqualem existimavi: in hisce Observationibus Aperturam latam $\frac{1}{4}$ unius Digiti objectivo lenti imposueram, per quam Fixa sedatior emicuit, Limbique tum ipsius, tum Planetæ, satis benè definiti, & Radiis spuriis spoliati apparuere, sed Fixæ melius.

---

**Novembr. 17 ☉ia** Hora 6 20′, p. m. secundum editas Supputationes Luna tegeret 23um Aquarii, cujus nunc Locus Tychonicus ♓ 7° 05′, Latitudo 0° 19′ $\frac{1}{4}$ Austr. Occultationem expectavi, sed Nubes Cœlos undiquaque ferè subtegentes Lunam è Conspectu meo detinuere, usquedum Fixam liberaverat; sed hisce aliquomodo separatis & discussis intra Horas 7 & 8, breviori Tubo Digitorum 85 $\frac{1}{4}$ cepi.

| *Alta* * | | | | | |
|---|---|---|---|---|---|
| ° | ′ | | | ′ | ″ |
| 21 | 04 . . . . | c * | 3454 = | 40 | 07 |
| 20 | 54 . . . . | l * | 2610 = | 31 | 00 |
| & post $\frac{1}{4}$ temp. | | l * | 2820 = | 32 | 45 |

*Vide Fig. 37*

Ultimam hanc Mensuram tamen paulo latiorem justo, præcedentes duas forsan aliquantulum arctiores æstimabam, Nubes enim recursuræ, festinare Observationes coegere.

**19 ♂tis** Ansulas Saturni tenues etiamnum videre potui, & Martem ab eâ parte deficientem quæ Soli revera aversa fuit; deinde Distantiam cepi inter contiguas duas Fixas in Cornu superiori Capricorni 1021 = 6′ 07″ aliquantulo forsan justo majorem; Nubes enim iterari Mensuram non permisère, Fixæ tunc in æquali Altitudine fuêre.

## ANNO MDCLXXIII.

## *Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

*Vide Fig.* 38

**Januarii 8 ♂is Veſperi**

Veneris Sidere 25ᵃ Aquarii appropinquante, cujus Locus Tychonicus ♓ 0° 54′, Lat. 1° 10′ capta.

| Alt. ✱ | Hor. ſup | | |
|---|---|---|---|
| ° ′ | h ′ | | ′ ″ |
| 14 00 | 4 38 | ♀ ✱ 4905 = | 29 18 |
| 10 55 | 5 11 | ♀ ✱ 5082 = | 30 23 |

Inclinatio ſupra Quadrantem in priori Obſervatione erat gr. 3°, in poſteriori 9°. Prima Diſtantia (quam accuratiorem exiſtimo) capta fuit inter Limbum remotiſſimum Planetæ & Fixæ, altera à Limbo proximo; Veneris Diameter æſtimatione per Tubum erat 20″.

*Vide Fig.* 39

**Februarii 4 ♂tis**

Circa 6h Veſperi, Martis Sidere ad 13ᵘᵐ Arietis appropinquante, cujus Locus Tychonicus ♉ 10° 36′, Lat. 1° 07′ Bor. Planetæ ab ea capta Diſtantia 5300 = 31′ ⅔ Min. major erat ipſius à Fixa Diſtantia, quam ut commodè Altitudinum vel Azimutharum Differentia capi potuit, jam ſecundum Ephemerides, diſtaret à Fixa 36′, at obſervatus eſt diſtare duntaxat 31′ ⅔; peccant ergo fere 5′. Sequenti Nocte accuratiores me conſequi poſſe Animadverſiones ſperabam, cum abeſſet à Fixa vix plus ſcrupulis primis 9′; ſed Nubes denſæ tunc omnem Obſervationem prohibuere.

*Vide Fig.* 40

**Martii 13 ♃is Veſperi.**

Jovis Sidere per 9ᵘᵐ Virginis (cujus Locus Tychonicus ♎ 13° 38′, Latitud. 1° 45′ Bor.) retrogrado incedente, minori Tubo, longo tunc 85 ⁷⁄₁₀ Dig. ipſius à Fixa capta Diſtantia 4560 = 52′ 34″: Motus ejus retrogradus diurnus in Ephemeride eſt 7′ ½, unde colligo ipſum in eadem cum Fixa Longitudine futurum Die 20; cum qua tamen Heckeri doctiſſimi Ephemerides ipſum locant Die 18.

Tres ad dextram Jovis Satellites hâc Nocte apparuere, nullus ad ſiniſtram:

**17 ☽**

Circa 7ʰ ½ p. m. cum minori Tubo longo, ut Veſperi Diei 13, capta ♃ f 2073 = 23′ 54″.

*Vide Fig.* 41

**20 ♃is Veſperi.**

| Alt. ✱ | Hor. ſup | | | | |
|---|---|---|---|---|---|
| ° ′ | h ′ | | | ′ ″ | |
| 6 00 | 7 14 | ♃ f | 850 = | 9 48 | minori Tubo |
| | | ♃ f | 1650 = | 9 52 | majori |
| 14 40 | 8 16 | d f | 784 = | 4 41 | |
| 15 40 | 8 23 | d f | 786 = | 4 41 | |
| 16 25 | 8 29 | ♃ f | 1665 = | 9 57 | |
| | | ♃ 3 | 700 = | 4 11 | |
| | | ♃ 1 | 445 = | 2 39 | |
| | | ♃ | 135 = | 0 48 | |
| | | ♃ f | 1658 = | 9 54 | |
| 19 00 | 8 50 | f d | 838 = | 5 00 | |

Quartus Satelles perobſcure emicabat, ut ipſius à Jove Diſtantiam accuratè dirimere non potuerim, ſed tentata & iterata aliquoties Menſura, ut potui cepi 910 = 5′ 26″.

*Vide Fig.* 42

**26 ☿ii Veſperi.**

Minori Tubo longo tunc Digitos 85 ⁷⁄₁₀ ♃ f erat 4210; contracto tamen Tubo ad Longitudinem 85 Dig. alto Jove 15° 40′, Hor. 7 57′, ipſe à Fixa aberat 4205 = 48′ 30″, quam Intercapedinem valde accurate captam credo. Omnes Satellites, ut in Figura 42, ad ſiniſtram à Jove apparuêre; intimus, quem calculo tertium fuiſſe reperi, unam Jovis Diametrum & paulo amplius à Limbo Jovis diſſitus; quartus duplum hujus diſtantiæ ab hoc, infra hos reliqui duo apparuere, uterque ſcilicet unam circiter Jovis Diametrum à Satellite ſibi proximo diſtans.

Diſtantia

ANNO MDCLXXIII.

## *Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

Martii 26 ☿ rii

Diſtantia & Latitudo cujuſque Satellitis à Linea ducta per Centrum Jovis, & punctum extimarum Digreſſionum in ſexageſimis Semidiametri, ſecundum clariſſimi Caſſini Numeros fuit ut in ſequente Tabellulâ; & propterea talis eſſe debuit apparentia, qualis in Fig. 43 depingitur.

| | *Elong. a* ♃ ſd. | ′ | *Lat. a Linea per Limites* ſd. | ′ | |
|---|---|---|---|---|---|
| 1 | 4 | 15 | 0 | 07 | *Boreal.* |
| 2 | 7 | 20 | 0 | 08 | *Boreal.* |
| 3 | 3 | 20 | 0 | 33 | *Auſtr.* |
| 4 | 8 | 40 | 0 | 57 | *Auſtr.* |

*Vide Fig.* 43

30 ☉ i

Jovis capta Diameter 134 = 48″ ſummum, ſed certè non minor 130 = 47″.

Aprilis 2 ☿ rii Veſperi.

Longiori Tubo, aptata unius Digiti ſupra lentem objectivam Apertura.

| | |
|---|---|
| ♃ 4 | 1346 bis |
| 2 | 558 |
| 3 | 398 |
| 1 | 287 |
| ♃ | 133 |
| rep. ♃ 4 | 1315 |
| 2 | 574 |
| 3 | 383 |
| 1 | 308 |
| 1 & 3 | 95 |
| 2 & 3 | 200 |

*Vide Fig.* 44

Jovis Altitudo nunc erat 22° 30′, unde Tempus eruitur $8^h$ 21′, P. M. captæ Obſervationes ante Semihoram.

4 ♀ ris Veſperi.

| | | |
|---|---|---|
| ♃ 3 | 985 | rep. 988 |
| 2 | 628 | 636 |
| 1 | 425 | 427 |
| 4 | | 272 |

*Vide Fig.* 45

Jovis Altitudo nunc erat 24° 00′, unde Hora deducitur 8 26′, P. M. jamque quartus Satelles apparuit infra Lineam per extimos duos & Jovem ductam; ſed vix unam, ni fallor, Semidiametrum; neque enim metiri licuit.

Diſtantia cujuſque Satellitis capta erat à Limbo Jovis remotiſſimo, cujus Diameter, Aprilis 2, reperta 133, Semidiameter ergo 66 ½; & propterea Diſtantia Centri Jovis a 1° 360, a 2° 569, a 3° 921, a 4° 205, & apparens Elongatio à Centro Jovis in ipſius Semidiametris, primi Semid. 5 25′, ſecundi 8 ſd. 33′, tertii 13 ſd. 51′, quarti 3 ſd. 05′. Motus & Elongatio cujuſq; Satellitis à Centro Jovis, ſecundum doctiſſimi Caſſini Numeros, Derbiæ reductos, erat ut in hac Tabellula; unde videre eſt primum Satellitem abeſſe 1, ſecundum 3, tertium 12 Partes ſexageſimas Semidiametri ab extimis earum à Jove Elongationibus, quæ propterea obſervatis additæ, ſummas faciunt earum Elongationes, nimirum,

| | *Mot. Medii* ſ | ° | ′ | *Mot. a* ♃ ſ | ° | ′ | *Elong. a* ♃ ſd. | ′ | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 16 | 33 | 9 | 04 | 52 | 4 | 59 | *Dex.* |
| 2 | 9 | 04 | 28 | 2 | 22 | 47 | 7 | 57 | *Siniſt.* |
| 3 | 9 | 01 | 47 | 2 | 20 | 06 | 12 | 48 | *Siniſt.* |
| 4 | 0 | 05 | 27 | 5 | 23 | 49 | 2 | 29 | *Siniſt.* |

| | ſd. | ′ | | ſ.d. | ′ | | |
|---|---|---|---|---|---|---|---|
| 1 | 5 | 26 | Conſtituit D. Townleius | 5 | 31 | at Caſſinus | 5 . |
| 2 | 8 | 37 | | 8 | 47 | | 8 . |
| 3 | 14 | 02 | | 13 | 28 | | 13 . |

ANNO MDCLXXIII.

## *Johannis Flamſteedii* Observationes Cœleſtes.

Unde liquet arctiores juſto eſſe ſummas Elongationes à clariſſimo Caſſino conſtitutas, quid quod & forſan excentricas eſſe Satellitum à Jove Orbitas.

*Vide Fig.* 46 — Aprilis 11 ♀. Hora 7 ½, P. M.

| | |
|---|---|
| ♃ 3 | 947 |
| rep. | 932 |
| ♃ 2 | 628 |
| rep. | 614 |
| ♃ 1 | 405 bis. |

Sed has Menſuras Nubeculæ & Vapores tenues Jovem ſubtercurrentes frequentiùs turbaverant; hiſce tamen ab ultimâ Obſervatione penitùs diſcuſſis, quâ potui deinde curâ, & accuratè, ut puto, dimenſus ſum.

| | |
|---|---|
| ♃ 3 | 947 |
| 2 | 622 |
| 1 | 405 |
| 4 | 942 |
| rep. | 957 alto Jove 24° 00′; Hor. ergo 7 56′, P. M |

Quartus Satelles apparuit aliquantulum ſupra lineam per primum & ſecundum ductam, tertium aliquando ſupra hanc, ſed & quandoque in ea, exiſtimavi. Erat nunc Planeta in ♎ 10° 51′, & ipſius Diameter 132, Semidiameter ergo 66, & vera Diſtantia primi Satellitis à Centro Jovis Partium 399, ſecundi 556, tertii 881, quarti 891; vel in Semidiametris, Elongatio primi 5 ſd. 08′, ſecundi 8 ſd. 25′, tertii 13 ſd. 21′, quarti 13 ſd. 30′.

Motus & Elongatio apparens cujuſque Satellitis, ſecundum ante memoratos Numeros, nunc erat ut in hoc Laterculo, unde videre eſt abeſſe primum 10 duntaxat, ſecundum 26, tertium Satellitem 38 Partes ſexageſimas Semidiametri ab extimis eorum Elongationibus. Ante acti tamen Anni Obſervationes meæ innuunt, duos ferre Gradus à Motibus primi & tertii auferendos eſſe, quo facto, primus aberit 13′, tertius 45′ à ſummâ ejus Digreſſione, fientque remotiſſimæ Expatiationes.

| | *Mot. Medii* | | | *a* ♃ᶜ | | | *Elongatio* | | |
|---|---|---|---|---|---|---|---|---|---|
| | ſ | o | ′ | ſ | o | ′ | ſd. | ′ | |
| 1 | 2 | 26 | 26 | 8 | 15 | 35 | 4 | 50 | —10 |
| 2 | 8 | 21 | 50 | 2 | 10 | 59 | 7 | 34 | —26 |
| 3 | 8 | 22 | 53 | 2 | 12 | 02 | 12 | 22 | —38 |
| 4 | 7 | 05 | 59 | 10 | 25 | 08 | | | |

| i | ſd. | ′ | ſd. ′ |
|---|---|---|---|
| 1 | 5 | 18 | vel 05 21 |
| 2 | 8 | 44 | |
| 3 | 13 | 59 | vel 14 06 |

*Vide Fig.* 47 — 14 ☽ Veſperi. Jovis Sidere ad 8ᵘᵐ Virginis appropinquante, cujus Locus nunc Tychonicus ♎ 10° 30′, Lat. 2° 23′ ½ Sept. Hora 8 04′, P. M. alto Jove 25° 50′, minori Tubo ejus à Fixa capta Diſtantia 4195 = 48′ 24″. Tubi enim Longitudo erat Dig. 85.

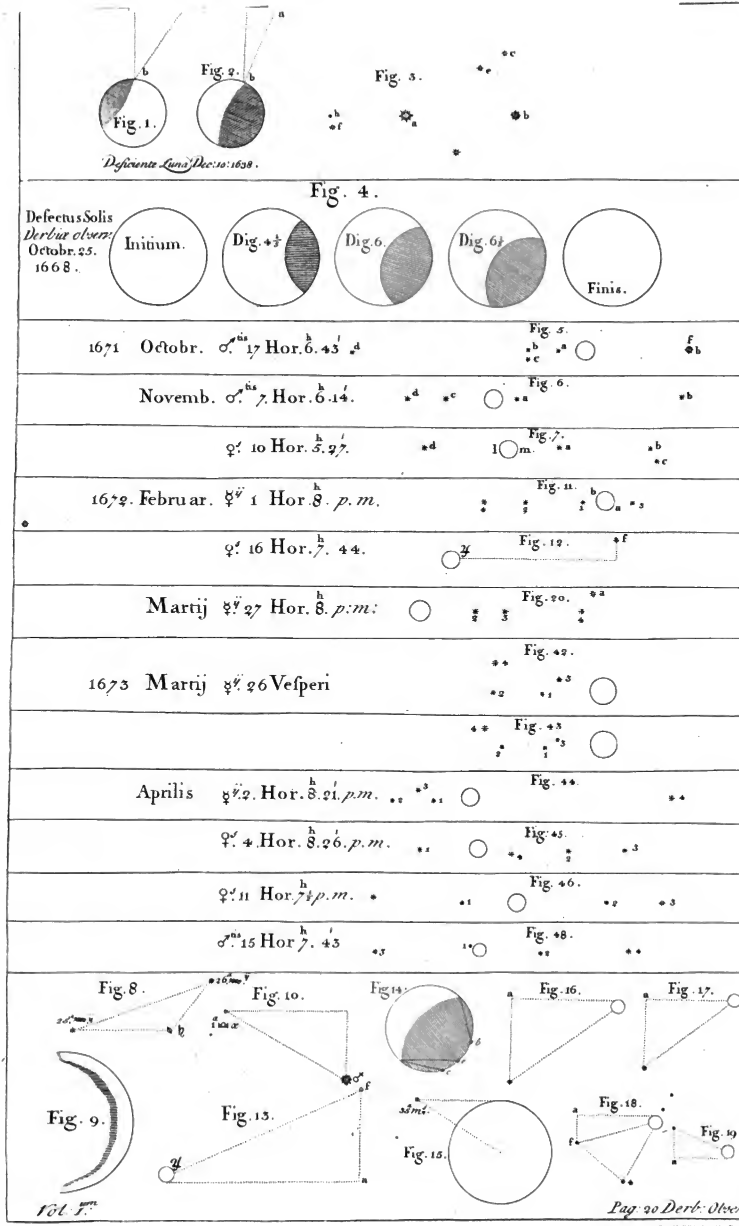
15 ♂ⁱⁱ Jovis Diameter 131 vel 132, accurate, ut judicabam.

*Vide Fig.* 48

| ♃ⁱˢ *Alt.* o ′ | *Hor. ſup* h ′ | |
|---|---|---|
| | | ♃ 3 995 |
| 25 00 | 7 43 | Primus Satelles aberat ¼ Diametri Jovis à Limbo ejus, ſupra Zonam latam, ut in Figura 48. |
| 27 00 | 8 06 | Jovem à Tergo ſubibat, cujus Locus correctior nunc erat ♎ 10° 27′, |

unde Radicem Motus medii hujus Satellitis ad Meridianum præcedentem primo Die Januarii, 1673, deduxi 11 ſ. 15° 12′, quæ à clariſſimi Caſſini Numeris deducta, 11 ſ. 16° 49′.

Deinde


Fig. 1.
Fig. 2.
Fig. 3.
Deficiente Luna Dec: 10: 1638.
Fig. 4.
Defectus Solis
Derbiæ observ:
Octobr. 25.
1668.
Initium.
Dig. 4½
Dig. 6.
Dig. 6½
Finis.
1671 Octobr. ♂. 17 Hor. 6. 43
Fig. 5.
Novemb. ♂. 7. Hor. 6. 14.
Fig. 6.
♀. 10 Hor. 5. 27.
Fig. 7.
1672. Februar. ☿. 1 Hor. 8. p. m.
Fig. 11.
♀. 16 Hor. 7. 44.
Fig. 12.
Martij ☿. 27 Hor. 8. p: m:
Fig. 20.
1673 Martij ☿. 26 Vesperi
Fig. 42.
Fig. 43
Aprilis ☿. 2. Hor. 8. 21. p. m.
Fig. 44.
♀. 4 Hor. 8. 26. p. m.
Fig. 45.
♀. 11 Hor. 7½ p. m.
Fig. 46.
♂. 15 Hor 7. 43
Fig. 48.
Fig. 8.
Fig. 10.
Fig. 14.
Fig. 16.
Fig. 17.
Fig. 9.
Fig. 13.
Fig. 15.
Fig. 18.
Fig. 19.
Vol. Ium.
Pag: 20 Derb: Obser:

ANNO MDCLXXIII.

## *Johannis Flamsteedii* OBSERVATIONES Cœleftes.

Aprilis 15 ♂ii

Deinde eâdem Vefpera, minori Tubo longo tunc Dig. 85 præcife, ♃ f capta 4284 = 49′ 24″, de hujus Menfuræ Certitudine bene mihi conftat; propterea fi à Noctis præcedentis Annotatione diffentire videbitur, huic potiùs fidendum duco; in ea enim vereor, ne pauciores jufto unâ Cochleæ Revolutiones numeraverim aut fcripferim. Jovis nunc Locus correctior ♎ 10° 27′, Fixæ 10° 30′, cum Latitudine Bor. 2° 23′ ½; Jovis ergo Latitudo non major 1° 34′ Bor. quam ipfam habet Ephemeris. *Vide Fig.* 49

Maii 10 ♄ni

Hora 8, P. M. Martis Sidus fecundum Heckeri Ephemerides effet 14′ in Antecedentia 21æ Geminorum, (cujus Locus Tychonicus ♋ 9° 38′, cum Latitudine Septentrionali 1° 31′) cum minori Latitudine etiam 14′, Obfervata eodem Vefperi. *Vide Fig.* 50

| Alt. ✱ ° ′ | Hor. fup h ′ | | |
|---|---|---|---|
| 17 50 | 9 04 | ♂ f | 2942 = 17 36 |
| 16 50 | 9 09 | ♂ f | 2962 = 17 43 |
| 15 46 | 9 16½ | f a | 408 = 2 26 |
| 14 26 | 9 26½ | f a | adhuc eadem |
| 10 50 | 9 53 | f a | 320 = 1 55 |
| 9 15 | 10 05 | ♂ f | 2800 = 16 45 |
| 8 10 | 10 12 | ♂ f | 2778 = 16 37 |

11 ☉ii Vefperi *Vide Fig.* 51

| Alt. ✱ ° ′ | Hor. fup h ′ | | ′ ″ |
|---|---|---|---|
| 17 50 | 9 00 | | ♂ f 4800 = 27 41 |
| 15 48 | 9 12 | a | ♂ f 7° ½ corr. 7 ½. |
| 15 07 | 9 17 | | ♂ f 834 = 27 53 a ♂ f ut antea. |

15 ♃ii Vefperi.

Veneris notatæ Diftantiæ & Pofitiones ab 8a Geminorum (cujus tunc Locus Tychonicus ♋ 14° 19′ Lat. 2° 56′, Septentrionalis) ut fequitur. *Vide Fig.* 52

| Alt. ✱ ° ′ | Hor. fup h ′ | | ′ ″ | ° | ° |
|---|---|---|---|---|---|
| 19 16 | 8 58 | ♀ f | 4900 = 29 17 | Inc. 37 ½ | corr. 40 ½ |
| 18 10 | 9 05 | ♀ f | 4871 = 29 06 | Inc. 37 ¼ | corr. 40 ¼ |
| 16 40 | 9 16 | ♀ f | 4850 = 28 59 | Inc. 36 ¼ | corr. 38 ½ |

Veneris (ut in 52a Figura cornuatæ) Diameter erat 1′ circiter, quamobrem 30″ ab obfervatis Diftantiis auferenda, ut veræ Centri ipfius à Fixa Diftantiæ habeantur.

In præcedentibus Obfervationibus, Tubo majori factis, Vitro ufus fui, qui à Micrometro plerumque diftabat, Dig. 164, quo fracto in fequentibus aliud adhibui quod à Menfuratore aberat ut plurimum Dig. 171; tantaque Tubi fuerit Longitudo, & fupponenda femper eft ubi nulla fit ejus mentio.

Septemb. 20 ♄i Mané.

Cum Veneris Sidus fecundum Ephemerides Heckeri diftaret 30′ duntaxat fcrupulos primos à 10a Leonis, cujus Locus Tychonicus tunc ♌ 21° 34′, Lat. 0° 00′, altâ ipfa 6° minori Tubo, ipfius capta à Fixa Diftantia ♀ f 2740 = 31′ 36″. *Vide Fig.* 53

Rurfus, altâ Venere 12° 50, i. e. Hor. . . . . ♀ f 5456 = 31′ 18″, & Inclinatio fupra Quadrantem 12°; fed in Cœlis, & correcta 12° ½. Planetæ Diametrum æftimavi dimidium fcrupuli primi, & propterea 15″ ab his Diftantiis fubducendos, ut centrales Diftantiæ Planetæ à Fixa haberi poffint. *Vide Fig.* 54

22 ☽

Alto Corde Leonis 32° 40′, i. e. Hora 5 45′ Mane, minori Tubo longo, tunc 85 ½, ♀ ab ipfo diftabat 4408 = 50′ 20′; fed hanc Menfuram, Diftantia paululum amplio-

F rem

ANNO MDCLXXIII.

*Johannis Flamsteedii* OBSERVATIONES Cœlestes.

rem potiùs judicabam; etenim Hora 5 59′, alto Regulo 34° 50′, Distantia Veneris ab eo capta 4380 = 50′ 01″, & Inclinatio 7°.

*Vide Fig.* 55 Iterum Hora 6 11′, alto Regulo 36° 20′, Veneris ab eo repetita Distantia 4359 = 49′ 56″, & Inclinatio accuratiùs 7 gr. $\frac{1}{3}$, quæ correcta, & in Cœlis, 9° $\frac{1}{2}$.

Septemb. 23 ♂ii Hora 3 32″ Mane, alto Corde Leonis 12° 50′, Veneris Limbus remotior, ab eo aberat 4615 = 53′ 14″; Planeta per Tubum apparuit ad dextram Azimuthæ per Fixam transeuntis, ut in 55a Figura; Tubo minori etiam in hac Observatione usus sum, cujus Longitudinem eandem fuisse ac hesterna Nocte credo, in adversariis enim descriptam non reperio.

Novembr. 12 ☿rii Luna secundum Ephemerides circa 10h P. M. transitura erat exiguum spatium supra 8am Arietis, cujus Locus Tychonicus ♉ 13° 58′, Lat. 4° 08′ Sept. ab Hora septima Fixam cum Limbo Lunæ unà intra Tubum videre potui. Erat Luna fere plena, exigua duntaxat Diametri quantitate ab ea Parte deficiente, quâ ad Fixam appropinquabat: Quamobrem sequentes Distantiæ intra Fixam & Partes proximas confinii captæ fuêre.

*Vide Fig.* 56

| *Alt.* ✳ ° | ′ | *Hor. sup* h | ′ | | | | ′ | ″ |
|---|---|---|---|---|---|---|---|---|
| 37 | 30 | 7 | 11 | c ✳ | 4650 | = | 53 | 20 |
| 38 | 42 | 7 | 19 | | 4265 | = | 48 | 54 |
| 40 | 16 | 7 | 30 $\frac{1}{2}$ | | 3825 | = | 43 | 52 |
| 42 | 48 | 7 | 49 | | 3095 | = | 35 | 42 |
| 44 | 08 | 7 | 58 $\frac{3}{4}$ | | 2690 | = | 31 | 02 |
| 46 | 40 | 8 | 18 $\frac{1}{2}$ | | 1900 | = | 21 | 54 |
| 49 | 40 | 8 | 44 $\frac{1}{2}$ | | 950 | = | 10 | 58 |

A sexta Observatione, numeratis Perpendiculi 130 Vibrationibus compositis, (quæ = 5′ $\frac{1}{4}$ scrupulis horariis) Altitudinem cepi Aldebaræ 30° 40′, unde Tempus Observationis istius deducitur 8h 19′ $\frac{1}{2}$ P. M. vix unum Temporis scrupulum ab Horâ ex Altitudine 8a Arietis derivata differentiens.

Tubi Longitudo in prima Observatione erat 85 $\frac{1}{10}$, in reliquis sequentibus duntaxat 85.

Fixa semper altior apparuit quam Limbus Lunæ supremus, & ad ultimam Observationem in eadem Azimutha cum Limbo sequenti, vel dextro apparenter Lunæ.

Luna illuminata erat plusquam Mareotidis Latitudinem ultra ipsam; è regione cujus Distantiæ in tertia & quarta Annotatione captæ fuere. Semel deinceps fixum vidi Etnæ fere Perpendicularem, sed mox perdidi, nec postea (Lunæ plenæ Lumine prohibente) reperire potui; ab Observationibus enim satis liquet non ab ea tectam fuisse, sed Lunæ Limbum vere austrinum, relicto aliquo spatio, supra ipsam transivisse.

Decembr. 13 ♄i Sequentes captæ Distantiæ Limbi Lunæ proximi à 10 Geminorum, cujus Locus Tychonicus nunc ♋ 5° 23′, Lat. 2° 11′, Sept.

*Vide Fig.* 57

| *Alta* ✳ ° | ′ | *Hor. sup* h | ′ | | | | ′ | ″ |
|---|---|---|---|---|---|---|---|---|
| 34 | 54 | 7 | 50 | I ✳ | 3776 | = | 43 | 40 |
| 42 | 45 | 8 | 44 | | 3400 | = | 19 | 30 |
| 48 | 20 | 9 | 23 | | 1410 | = | 8 | 05 |
| 48 | 40 | 9 | 25 | | 1310 | = | 7 | 30 |
| 50 | 30 | 9 | 29 | | 1150 | = | 6 | 37 |

In

## ANNO MDCLXXIII.

## *Johannis Flamsteedii* OBSERVATIONES Cœleftes.

In prima Obfervatione Diftantia capta fuit minori Tubo, longo tunc Dig. 84 ½, in fequentibus longiori, cujus erat folita Longitudo, Digit. 171.

Ad tertiam Annotationem, fixa erat in recta cum Sina & Besbico quoad potui conjicere; & in ultima aliquantulum ad finiftram ab Azimutha per Limbum Lunæ præcedentem tranfeunte, in præcedente æquali fere Diftantia aberat ab eadem linea ad dextram.

Altitudines Fixæ in duabus primis Animadverfionibus fatis accuratæ captæ mihi videbantur, in fequentibus non perinde, quoniam Ventus Tubum ipfique affixum Quadrantem interdum agitabat, ultimæ Obfervationi Nubes fuccedentes Lunam è confpectu meo abftulére, plurefque Animadverfiones prohibuêre.

## ANNO MDCLXXIV.

Februarii 6 ♀ Vefperi. Minori Tubo, longo tunc 85 ⅞, Diftantia Limbi Lunæ à 10ª Geminorum erat 750 = 8′ 33″, jamque Fixa erat in recta linea per Cufpides Lunæ parum obtufas producta, quoad æftimare potueram; immediatè propterea Reguli capta Altitudo 25° 48′, unde Hora eruitur 7 27′ P. M. Fixam fecundum Ephemerides tegere debuiffet; fed ejus à Tychonis vitiosè exfcriptam Latitudinem fuiffe credo, & pro 2° 11′ potius fcribendam 2° 01′. Lantgravii enim Catalogus habet 1° 59′ ½, quæ cum hac Obfervatione fatis bene confentiet.

11 ☿ Hora . . . . Vefperi, alto Saturno 21°, minori Tubo longo tunc Digit. 85, ipfe diftabat a 14ª Pifcium 5735 = 66′ 08″, eratque Inclinatio f ♄ a fupra Quadrantem 24°, at in Cœlis 22° ½; Fixæ Locus ♈ 13° 27′, Lat. 1° 31′ Meridionalis. *Vide Fig.* 58

16 ☽ Hora . : . . P. M. alto Saturno 9° minori Tubo, longo tunc 84 7, ipfe ab eadem Fixa diftetit 4260 = 49′ 18″. Inclinatio fupra Quadrantem, f ♄ a 47°, in Cœlis 46°, D. G. *Vide Fig.* 59

## SOLIS Diametri Tubo longiore Digitorum 164 *DERBIÆ* obfervati.

| MDCLXXII. *Menfe* | *Die.* | *Alt.* ☉ᵉ | *Partes Microm.* | ′ | ″ |
|---|---|---|---|---|---|
| Januariii | 5 | 5 ½ Occ. | 5505 | 32 | 56 |
| | 11 | 10 | 5475 | 32 | 37 |
| | 12 | 13 | 5473 | 32 | 36 |
| | 15 | 9 | 5450 | 32 | 37 |
| Februarii | 1 | 19 ½ Occ. | 5435 | 32 | 28 |
| | 17 | 28 Occ. | 5417 | 32 | 21 |
| | 20 | 21 ½ Occ. | 5410 | 32 | 18 |
| Martii | 4 | 33 ½ | 5400 | 32 | 14 |
| | 7 | 24 ½ Ort. | 5395 | 32 | 13 |
| | 19 | 39 Occ. | 5393 | 32 | 01 |
| | 27 | 48 Occ. | 5368 | 32 | 04 |
| Aprilis | 16 | 11 h. m. | 5325 | 31 | 48 |
| Maii | 28 | 17 ½ Occ. | 5277 | 31 | 28 |
| Julii | 5 | 7 h. ½ m. | 5273 | 31 | 29 |
| Novembris | 20 | 15 Merid. | 2827 | 32 | 36 |
| MDCLXXIII. | | | | | |
| Januarii | 10 | Meredie. | 2827 | 32 | 36 |
| | 27 | | 5470 | 32 | 42 |
| Novembris | 12 | No. virt Tubi long. | 5700 171 | 32 | 42 |

ANNO MDCLXXI. & LXXII.

*Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

## LUNÆ Diametri *DERBIÆ* Obſervatæ.

| MDCLXXI. Menſes | Dies. | Temp. | Altitud. Lunæ. | Long. Tubi dig. x | Partes Microm. Rev. Cent. | Diam. Lunæ. ′ ″ | Long. Lunæ. ſ. ° | Anom. Med. ſ. ° | Diſtant. Solis. ſ. ° |
|---|---|---|---|---|---|---|---|---|---|
| Novembris | 3 | veſp. h | 36 30 | 164 4 | 5680 | 33 57 | ♈ 12 | | 4 21 |
| | 6 | v. 8 | | 164 1 | 5725 | 34 11 | ♉ 25 | | 6 01 |
| | 7 | m | 18 | 164 1 | 5656 | 33 48 | ♊ 2 | | 6 08 |
| | 8 | v | 12 | 85 7 | 2890 | 33 02 | ♊ 28 | | 7 02 |
| | 9 | v | 10 | 85 3 | 2854 | 32 47 | ♋ 13 | | 7 16 |
| | 10 | v | 12 | 85 7 | 2823 | 32 15 | ♋ 27 | | 7 29 |
| | 18 | m 7 | | | 4885 | 29 11 | ♏ 0 | | 10 24 |
| Decembris | 3 | v 7 | | 164 4 | 5715 | 33 57<br>34 06 | ♉ 24 | | 5 02 |
| | 4 | v 8 | | | 5690 | 33 58 | ♊ 5 | | 5 12 |
| | 5 | m | 21 } | | 5653 | 33 43 | ♊ 13 | | 5 20 |
| | | | 12 ½ } | | 5633 | 33 32 | | | |
| | 5 | v | 14 ½ | 164 4 | 5660 | 33 46 | ♊ 20 | | 5 26 |
| MDCLXXII. | | | | | | | | | |
| Januarii | 11 | m 6 | 23 } | | 5050 | 29 57 | ♎ 23 | | 8 22 |
| | | | 22 ½ } | | 5062 | 30 01 | | | |
| Februarii | 23 | v 10 | 20 50 | Occ. | 5467 | 32 38 | ♉ 22 | | 2 07 |
| | | | 19 23 | Occ. | 5463 | 32 37 | | | |
| | 24 | v | 40 } | Occ. | 5480 | 32 43 | ♊ 26 | | 2 20 |
| | | | 33 } | Occ. | 5458 | 32 36 | | | |
| | 29 | v | 21 | Ort. | 5305 | 31 41 | ♌ 16 | | 4 21 |
| Martii | 2 | v | 34 | Ort. | 5247 | 31 20 | ♍ 14 | | 5 21 |
| | 3 | v | 11 } | Ort. | 5158 | 30 48 | ♍ 26 | | 6 02 |
| | | | 19 } | Ort. | 5178 | 30 55 | | | |
| | 4 | v | | Ort. | 5157 | 30 47 | ♎ 10 | | 6 15 |
| | 20 | v | 13 } | Occ. | 5473 | 32 40 | | | 0 25 |
| | | | 9 ½ } | Occ. | 5455 | 32 34 | | | |
| | 27 | v 5 h. | 40 | | 5323 | 31 49 | | | |
| | 28 | v | 49 | | 5308 | 31 42 | | | |
| Aprilis | 19 | v | 19 } | Occ. | 5543 | 33 06 | ♊ 13 | | 1 02 |
| | | | 13 } | | 5536 | 33 04 | | | |
| | 20 | v | 33 | | 5556 | 33 10 | | | |
| | | | 26 | Occ. | 5543 | 33 05 | ♊ 26 | | 1 14 |
| | | | 19 | | 5533 | 33 02 | | | |
| | 24 | v | 44 ½ | Occ. | 5318 | 31 45 | ♌ 25 | | 3 10 |
| | 25 | v | 43 | Occ. | 5254 | 31 22 | ♍ 8 | | 3 22 |
| Maii | 23 | v 8 | 35 ½ | Occ. | 5244 | 31 17 | ♍ 17 | | 4 04 |
| | 24 | v | 31 | Occ. | 5156 | 30 46 | ♍ 28 | | 3 15 |
| | | | 21 20 | | 5138 | 30 40 | | | |
| | 27 | de Die | 10 | Ort. | 4953 | 29 36 | ♏ 5 | | 4 20 |
| | | 13 p. m. n. | 11 ½ | Occ. | 4958 | 29 41 | | | |
| Junii | 20 | v | 18 ½ | Occ. | 5166 | 30 50 | ♍ 24 | | 2 15 |
| | 21 | v | 25 | Occ. | 5116 | 30 32 | ♎ 9 | | 2 29 |
| | | 9 ½ | 14 30 | Occ. | 5096 | 30 25 | | | |
| | 22 | v | 18 10 | Occ. | 5055 | 30 10 | ♎ 21 | | 3 10 |
| | | | 15 25 | | 5053 | 30 9 | | | |
| Auguſti | 27 | v | 15 | Orient. | 5237 | 31 19 | ♑ 24 | | 5 10 |
| | 29 | v | 12 ½ } | Ort. | 5317 | 31 47 | ♒ 16 | | 6 00 |
| | | | 20 } | | 5329 | 31 51 | | | |
| Octobris | 7 | m 7 | 30 | Ort. | 5278 | 33 33 | ♍ 12 | | 10 18 |

ANNO MDCLXXII, LXXIII, & LXXIV.

*Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

## LUNÆ Diametri *DERBIÆ* obſervatæ.

| MDCLXXII. Menſ. Die. | Tem. h | Altit. Lunæ | Long. Tub. | Partes Microm. Rev. Cen. | Diam. Lunæ ′ ″ | Lunæ Long. s ° | Anom. Med. ſ o | Diſt. a Sole. ſ. o | |
|---|---|---|---|---|---|---|---|---|---|
| Octobris 8 | m | 17 | Ort. | 5151 | 30 47 | dubia propter tenuitatem Cuſpidum. | | | |
| Novembris 19 | v 5 ½ | 31 } | | 5305 | 31 43 | ♈ 2 | | | |
| | 6 | 32 } | | 5323 | 31 49 | 31 46 | | 3 ′ 24 | |
| ♃ 21 | v. | 33 ad | Ort. | 5504 | 32 54 | | | | |
| ♀ 22 | | 25 } | Ort. | 5567 | 33 16 | ♉ 15 | | 5 04 | |
| | | 40 } | | 5594 | 33 26 | | | | |
| ☽ 25 | mane | 36 | Occ. | 5704 | 34 06 | ♊ 20 | | 6 06 | |
| Decemb. ☽ 2 | m | 30 | Ort. | 5282 | 31 35 | ♎ 01 ½ | | 9 10 | |
| ♂ 3 | m | 24 | Ort. | 5182 | 30 59 | ♎ 14 | | 9 22 | |
| ☽ 23 | m | 23 ¾ | Occ. | 5667 | 33 56 | ♋ 00 | | 5 17 | |
| | | 19 | | 5647 | 33 55 | | | | |
| ♂ 24 | v | 16 } | | 5657 | 33 49 | | | | |
| | | 22 } | Ort. | 5662 | 33 51 | ♋ 22 | | 6 08 | |
| | | 30 } | | 5685 | 33 59 | | | | |
| MDCLXXIII. | | | | | | | | | |
| Martii 20 | v | 27 | Ort. | 5454 | 32 35 | ♍ 19 | | 5 09 | |
| Aprilis ♀ 18 | v | 18 | Ort. | 5270 | 31 30 | ♎ 11 | | 5 02 | |
| ♄ 19 | v | 17 | Ort. | 5223 | 31 14 | ♎ 25 | | 5 15 | |
| Maii ☉ 11 | v | 37 } | Occ. | | | | | | |
| | | 34 } | Occ. | 5518 | 32 59 | ♌ 15 | | 2 14 | |
| Auguſt. 15 | v | 12 } | Ort. | 4936 | 29 30 | ♒ 15 | | 5 12 | |
| | | 15 } | | 4964 | 29 40 | | | | |
| 18 | v | 12 | Ort. | 5012 | 29 58 | ♓ 21 | | 6 15 | |
| 19 | v | 16 | Ort. | 5252 | 30 16 | ♈ 4 | | 6 27 | novo Vitro objectivo, Dig. 171 |
| 21 | v | 13 | Ort. | 5380 | 30 51 | ♈ 29 | | 7 21 | |
| | | 16 ½ | Ort. | 5395 | 30 56 | | | | |
| Septembris 14 | v | 19 | | 5304 | 30 20 | ♓ 17 | | 5 15 | |
| 17 | v | 18 ; | Ort. | 5410 | 31 01 | ♈ 24 | | 6 19 | |
| 18 | v | 19 ½ | Ort. | 5458 | 31 18 | ♉ 7 | | 7 01 | |
| 19 | v 9 | 19 | Ort. | 5505 | 31 34 | ♉ 22 | | 7 15 | |
| Octobris 8 | v | 18 | | | | | | | |
| ♃ 9 | veſp. | 19 ½ | Ort. | 5217 | 29 55 | ♒ 18 | | 3 22 | |
| ☽ 13 | veſp. | 19 | | 5380 | 30 51 | ♈ 7 | | 5 6½ | |
| ♂ 14 | | 24 | Ort. | 5455 | 31 17 | ♈ 20 | | 5 18 | |
| ☿ 15 | v | 23 ½ | Ort. | 5500 | 31 32 | ♏ 3 | | 6 00 | |
| Novemb. ♀ 14 | v | 25 ½ | | 5688 | 32 37 | ♊ 10 | | 6 07 | |
| Decemb. ☉ 14 | v | 21 | | 5808 | 33 18 | ♋ 16 | | 6 12 | |
| MDCLXXIV. | | | | | | | | | |
| Januarii 9 | v | 18 | | 5775 | 33 07 | ♊ 25 | | 4 25 | |
| | | 24 | | 5815 | 33 21 | | | | |
| Februarii 9 | v | 27 | | 5900 | 33 50 | ♌ 27 | | 4 28 | |

# OBSERVATIONES COELESTES

## *JOHANNIS FLAMSTEEDII, Derbiensis,*

## In ARCE *LONDINENSI* habitæ,

## Et Ædibus JONÆ MOORE, Equitis Aurati, Rei Tormentaræ Supervisoris Generalis.

ANNO M DC LXXV.

Aprilis 18 Mané. HOROLOGIUM oscillatorium per Solis captas Altitudines correctum erat & restitutum.

Vesperi ejusdem Diei 18, Martis Planeta per Tubum Pedum 23 $\frac{1}{2}$ (cui Micrometrum novum meæ Excogitationis adaptâram) conspectus, in eadem Altitudine apparuit cum 21ª Geminorum Lucis sextæ, è qua Hora 9 24′ per Horologium, ejus cepi Micrometro Distantiam 3557 = 10′ 13″: Hanc tamen Mensuram aliquantulum justò latiorem putabat Socius, ego potius non minuendam; sed Ventus fortiter spirans, vix unquam immotum deinceps detineri Tubum permittebat dum repeteretur Observatio. Fixæ hujus (posito Æquinoctiorum Recessu annuo 50″) Locus Tychonicus erat ♋ 9° 39′, Lat. 1° 31′. Angulus etiam Circuli verticalis per Fixam transeuntis cum Ecliptica 51° 18′, propterea ♂ in Antecedentia Fixæ 8′ 00″ cum Latitudine majori 6′ 24″. *Vide Fig.* 60

Die 19 Hor. 9ª Vesperi, Distantia inter Planetam & Fixam major erat aliquantulum quam Tubi longioris capacitas, quæ est Scrupulorum 22′.

Die 22 Paulo post 2ᵃᵐ Matutinam Tubum ad Jovem applicuimus, quo ejus à 29ª & 30ª Ophiuchi caperemus Distantias; 29ᵉ locus Tychonicus tunc ♐ 18° 14′, Lat. 0° 29′ Septentrionalis; 30ᵉ ♐ 18° 38′, Lat. 0° 58′ etiam Sept. Lucis utraque 5ᵉ, Jovis tunc retrogradi locus ♐ 18° 29′, Lat. 0° 38′ Sept. qui propterea à 29ª Ophiuchi, 17′ solummodo scrupulos primos; à 30ª non nisi 22′ distetisse debuerit; Die 23° in recta linea per utrasque ducta apparuisse, & deinceps ab iis recessisse quotidie ut videre est in Figura; jam vero etiamsi Aer valde serenus erat, Planetaque haud procul à Meridiano, nullam circa ipsum Fixam intra Tubi capacitatem reperire potui; duo solummodo apparuêre Satellites, alter ad utrumque latus $\frac{1}{2}$ Diametri circiter Jovialis à Limbo ejus distantes, tertiusque ad dextram remotior. *Vide Fig.* 61

Maii 3 ♄ⁱ Paulo post 11ᵃᵐ P. M. Jovem Tubo pedum 24 contemplatus sum; indistinctè præ Urbis fumo & Thamesis vaporibus videbatur, cum omnibus ejus Satellitibus, haud multò secius dispositis quam ostenderat Calculus; attamen, cum jam 17′ duntaxat scrupulos, à 28ª Ophiuchi (cujus nunc locus è Catalogo Tychonico derivatus est ♐ 17° 25′, Lat. 0° 20′ Bor.) ad Boream apparuisse debuisset; nec hanc Fixam reperire potui, etiamsi non solum breviorem Tubum gradum unum & amplius recipientem, sed & longiorem pedum 24 adhibui; quibus tamen exiguas nonnullas Fixas 40′ fere ab ipso distantes clarè vidi, sed ad lævam, cum Fixa illa potius ad dextram supra Jovem apparuisse debuisset. In Catalogo Fixarum, quem, cum Tabulis Rudolphinis, edidit Keplerus, ad has Fixas notat: *Desunt in meo Catalogo*, unde proclive est conjicere, vel nullas unquam Fixas in iis fuisse locis, vel si quæ, Tychoni & suis Discipulis apparuere, haud longo post tempore fuisse extinctas.

☿ⁱⁱ 21 Luna circa 9ᵃᵐ Vesperi longiori Tubo considerata, inequaliter admodum circa Confinium illuminata apparuit; Hora 9 30′ sectio pertingebat ad Montes Argentarium, Olimpum,

ANNO MDCLXXV.

## *Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

limpum, & Didimum, ad Techiſandam appropinquans, quæ cum Dalanguero valde conſtricta videbatur, nec à Limbo multùm remota, etiamnum tamen cava apparuit, defuitque notabiliter à vera Dichotomia, quæ (ſi vera fuiſſet Solaris Bullialdi, aut Wingi, noſtratis Parallaxis) apparuiſſet Hora 8 30′; Quadratura enim vera in Ephemeride Hora 12 46′, quam media Sectio præcedere debuit Horis 4 ½. Circa 10 h Nubes tenues Lunam ſubire ceperunt, adhuc dum tamen Luna utriſque Vitris cava videbatur, nec ante ejus Occaſum biſecta futura.

Maii 24 ♄ⁱ Hora 11 13′ P. M. ſecundùm editas Conjecturas, Luna tegeret ultimam Virginis, cujus jam locus Tychonicus ♎ 21° 37′, Lat. 6° 16′ Auſtr. hanc Occultationem longiori Tubo præſtolabamur, quæ, indicante Horologio, acciderit Hor. 11 29′ 15″: Ante Occultationem Fixa clariſſimè uſque ad ipſam ſemper apparuit, Tectæ à Confinio Diſtantia, erat dimidium circiter Longitudinis Mæotidis; altior apparuit ſub Immerſione quam *Sina*, humilior quam *Sinus Sirbonis*, juxta ſupremam Macularum, Hevelio quæ audiunt Montes Lion.

Hora 12 14′, Nubes Lunam vexare ceperunt, huc uſque clariſſimè conſpecta fuerit, ſed nondum Stella apparuit. *Vide Fig. 62*

Hora 12 19′ clarius viſa Luna, ipſam, parte Nubis tenuiore prætervolante, nondum tamen Stellam videre potui, quæ forſan à Limbo lucido emergens, difficiliùs conſpiceretur, antequam ad paucos ſcrupulos ſepararetur ab eo. Hora 12 20′, *Arcis albæ* Turriculum Lunam è conſpectu noſtro intercipiebat, nec deinceps humilem cernere propter Ædificia licuerit.

Die 23 Maii, Horologium juſtò properantius 3′ 30″:
29 etiam juſtò velocius 8′ vel 9′.

Horologium ergo in hac Obſervatione juſtò velocius 4 duntaxat ſcrupulis horariis, & tempus apparens veræ occultationis, Hora 11 25′ ½ P. M.

---

Junii 4 ♀ⁱⁱ Poſt mediam Noctem ſequentem ibat Luna haud longe infra 7ᵐ Piſcium, cujus locus Tychonicus ♓ᵘᵐ 22° 07′, Lat. 3° 25′ Septentrionalis: hunc Appulſum breviori Tubo Digitorum 83 ½ obſervavi, Tempora ab Horologio indicata, numerante N. Stevenſon.

| *Hor. per Horolog.* h ′ ″ | *Correcta.* h ′ ″ | |
|---|---|---|
| 12 53 12 | 12 51 00 | Lunæ Limbus remotior à Fixa 5360 = 55′ 05″, Luna erat fere biſecta; ſed Fixa aberat à linea per Cuſpides 3 vel 4 Scrupulos primos. |
| 13 04 10 | 13 02 00 | Fixa in recta per Cuſpides apparuit, à remotiori Limbo diſtans 5412 = 55′ 36″. |
| 13 08 15 | 13 06 00 | Lineam per Cuſpides ſenſibiliter ſuperaverat, nimirum 2 vel 3 Scrupulos, à Limbo remotiori diſtans 5460 = 56′ 02″. |
| 13 16 35 | 13 14 20 | Iſthæc Diſtantia 5550 = 57′ 02″. |

*Vide Fig. 63*

In his omnibus Obſervationibus tenuis Nubecula Lunæ prætendebatur, per quam tamen haud difficile fuit Fixam cernere; ab ultima tamen Obſervatione ſpiſſiores ab Horizonte ſurgentes Nubes, ipſam e conſpectu noſtro penitus eripuere.

Sequenti mane Horologium per Solis Altitudines captas examinatum, duobus paulo plus Scrupulis properantius juſtò repertum, unde ejus derivata Emendatio. *Vide Fig. 57*

8 ☉ⁱˢ Veſperi. Emerſioni primi Satellitis Jovis ex ejus Umbra invigilavi; Hora 11 37′ non emerſerat; cœpit deinde Cœlum ſub eo Vaporibus rariuſculis turbari, adeo tamen ut nihilominus ipſum cum reliquis ſuis Satellitibus diſtinctè ſatis conſpicere licuerit. Hora 11 47′ videri cœpit Satelles. Hora 11 48′ admodum dilucide apparuit.

Die

ANNO MDCLXXV.

## *Johannis Flamsteedii* Observationes Cœlestes.

Die 5, Mane, Horologium justò celerius repertum Scrupulis 5 ½; nunc ergo 4′ duntaxat properantius movebatur, eratque Satellitis Emersio vera, Hor. 11 43′ P. M.

Junii 26 ♃ Cœlum à Meredie Defectui lunari præcedente Nubibus densissimis coopertum, omnem fere spem præciderat ipsam observandi; hisce tamen paulo post Occasum Solis primùm attenuatis, fractis deinde & dissipatis, haud infœlicis nobis spes redierunt Opportunitatis. Paulo ante mediam Noctem Jovem primum vidimus, & deinde Lunam, quam postea in conspectu fere semper habuimus usque ad initium Defectûs; sed aliquando Nubibus prætervolantibus impeditam, Hora 13 01′, Tubo breviori, longo Dig. 85 ⅒, Lunæ capta Diameter 3190 = 31′ 47″; iterumque Hora 13 11′ eadem 3191, hucusque cœli extiterunt serenissimi, nullaque in Luna conspecta Penumbra ante 13h 37′ ½, quando Nubes ipsam rursus subire cœperunt, adeò tamen ut vel per earum hiatus vel partes tenuiores plerumque conspici potuerit: Vix vero distincte satis ad determinandum, num Penumbra ejus Limbum infecerat, necne, ante Horam 13 46′ 40″, quando per Nubis prætervolantis hiatum Limbum ejus dextrum perobscurum vidi, Adjutoremque monui, ut notato tempori adscriberet, Penumbra densa: Attamen pensitatis quas deinde habui Observationibus, potiùs censeo ipsum fuisse Defectûs initium; aliæ etenim Nubeculæ supervenientes, Lunam subitò abstulêre, priusquam licuit determinare utrum per visam Obscuritatem Limbus fuerit distinguendus, necne; hisce tamen mox ad Horizontem subsidentibus, optatam habuimus ad exortum Solis usque serenitatem, sequentesque Umbræ terrestris ad maculas in facie Lunæ notavimus appulsus.

| *Hor. per Horolog.* h | ′ | ″ | |
|---|---|---|---|
| 13 | 37 | 30 | Nulla Penumbra. |
| | 46 | 46 | Penumbra densa, vel potius Initium. |
| | 55 | 15 | Pentadactilus tectus. |
| 14 | 02 | 20 | Porphyrites tectus. |
| | 5 | 30 | Sinæ Limbus primus. |
| | 6 | 00 | Etnæ Limbus primus. |
| | 8 | 40 | Partes lucidæ residuæ 2071 = 20′ 38″. |
| | 12 | 00 | Exigua Fixa Telescopica apparuit infra Lunam, revera erat supra, à Limbo ejus distans 14′. |
| | 17 | 45 | Partes illuminatæ residuæ 1655 = 16′ 27″. |
| | 23 | 05 | Besbici Limbus primus. |
| | 26 | 03 | Horminius. |
| | 29 | 00 | Æmus tectus. |
| | 30 | 45 | Partes illuminatæ residuæ 1047 = 10′ 24″. |
| | 35 | 00 | Partes residuæ 865 = 8′ 38″; jamque Tubo longiori Fixam aliam vidi Maculæ Caspiæ Longitudinem fere à Limbo Lunæ, & ipsius Latitudinem à Linea per Cuspides ducta distantem. |
| | 37 | 15 | Pontus tectus. |
| | 39 | 30 | Corocondometis Limbus primus. |
| | 45 | 00 | Mæotidis Limbus primus. |
| | 50 | 40 | Mœotis tota tecta. |
| | 56 | 10 | Finis Luminis dubius. |
| | 56 | 55 | Certè Immersio; omni vero Lumine extincto. |
| 14 | 57 | 30 | Limbus Lunæ in umbram mersæ cineritii coloris apparuit. |

Desiit Lux paulo supra Montes Ripheos, circa gradum Limbi Lunæ Hevelianæ 33°; color verò antedictus cineritius ipsi adhærebat, per Quadrantem Horæ post Immersionem. Extinctam penitùs fuisse Lunam protinùs post Immersionem asserit D. Hook; ego potiùs puto solummodo Diei, & Solis nascente luce fuisse absconditam, quæ si non obstiterat, diutiùs à latere quod ultimum in Umbram inciderat fuisset conspicua.

Post

## *Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

### ANNO MDCLXXV.

Junii 26. Poſt ortum Solis, per ejus Altitudines Horologium examinavimus, quod tempus apparens ſatis accuratè oſtendere compertum; attamen quandoquidem Quadrans erat 20 ſolummodo Digitorum Radio, nec niſi nuda habebat Pinnacidia, vix certiores eſſe potuimus de Temporibus, quam ad unum Minutum horarium.

Exigua fuerat in hoc Defectu Penumbra, certè nunquam maculæ Caſpiæ Latitudinem æquavit, imo vix latior erat quam Sina aut Ætna, unde fuit quod nulla Penumbra, 9′ duntaxat ſcrupulis Temporis ante verum initium in Limbo Lunæ apparuit.

Julii 11 ♄ⁱ Hora 10 11′ correcta, P. M. vel forſan aliquantulo citiùs, Satelles primus Jovis ab Umbra ejus emergebat, vix unam ejus Semidiametrum ad dextram apparenter, vere ad ſiniſtram à Limbo Jovis diſtans.

# *JOHANNIS FLAMSTEEDII*

# OBSERVATIONES COELESTES

## GRENOVICI habitæ

## ANNO MDC LXXV.

Septemb. 26 ♄ⁱˢ NOCTE ſequente, Lunæ appulſum ad 10ᵐ Arietis, (cujus tunc Locus Tychonicus ♉ 17° 26′ 17″, Lat. 2° 50′ Septentrionalis) Tubo Digitorum 103½, & Micrometro proprio obſervavi; Cœlum erat ad votum ſerenum, tempora Animadverſionum ope Horologii oſcillatorii cepimus, quod per Solis Altitudines manè ſequenti examinatum, ſeptem & aliquid amplius ſcrupulis horariis primis juſto tardiora oſtendiſſe compertum; attamen quandoquidem Quadrante Digitorum 20 duntaxat Radio, adhuc captæ fuere Altitudines, vix de temporibus inde derivatis certiores eſſe potuimus, quam ad unum Minutum horarium; plus tamen nos non erraſſe certus ſum.

| *Hor. Horol.* h ′ ″ | *Correcta* h ′ ″ | | | ′ ″ |
|---|---|---|---|---|
| 8 54 30 | 9 01 30 | Lunæ Limbus proximus à Fixa | 3177 = | 26 13 |
| | | Lunæ altæ 26 ÷ Diameter | 3593 = | 29 49 |
| 9 07 10 | 9 14 10 | Lunæ Limbus proximus à Stella | 2500 = | 20 34 |
| 9 29 30 | 9 36 30 | Iſthæc Diſtantia | 1390 = | 11 26 |
| 9 34 30 | 9 41 30 | Eadem | 1155 = | 9 30 |
| 10 00 00 | 10 07 00 | Mæotidis circiter Longitudine à Limbo aberat. | | |
| 10 05 00 | 10 12 00 | Fixam diutius videre non potui, quam propterea jam nunc à Luna tectam credo 10 circiter Gradus à Vertice ☽ ad dextram apparenter. | | |
| 10 34 00 | 10 41 00 | Emerſerat, iſthoc forſan momento, ſiquidem haud plus quam eſt Latitudo Nuclei Sinæ à confinio Lucis & Umbræ aberat. | | |
| 10 36 50 | 10 43 50 | Mareotidis Longitudinem à confinio aberat, & à proxima Parte Mæotidis | 2666 = | 21 55 |
| | | Sina à Limb. remot. Lacus nigri majoris | 2686 = | 22 05 |
| | | Sinæ Limb. proximus à proximo Lunæ | 665 = | 5 28 |

## *Johannis Flamsteedii* Observationes Cœlestes.

### ANNO MDCLXXV.

| | Hor. Horol. h ′ ″ | Correcta. h ′ ″ | | ′ ″ |
|---|---|---|---|---|
| Sept. 26. | 11 00 00 | 11 07 00 | Fixa aberat à Confinio | 1015 = 8 20 |
| | 11 25 00 | 11 32 — | A Limbo remoto | 5492 = 45 09 |
| | 11 34 00 | 11 41 — | Repetita Distantia | 5887 = 48 24 |

*Vide Fig.* 64. Lunæ locus ab his Observationibus deductus Hor. 10 12′ erit 10′ 36″ in Antecedentia Fixæ, cum Latitudine majore, Septentrionem versus fere 11′; sed Hora 10 41′ in consequentia Fixæ 3′ 30″.

Septemb. 30 ♃ii. Vesperi, Lunæ observatus appulsus ad 20um Geminorum, cujus tunc locus Tychonicus ♋ 7° 25′, Latitudo 1° 12′ Meridionalis.

| Hor. Horol. h ′ ″ | Correcta. h ′ ″ | | ′ ″ |
|---|---|---|---|
| 11 59 55 | 12 04 10 | Lunæ Limbus proximus à Fixa | 5310 = 43 20 |
| 12 04 15 | 8 30 | Eadem Distantia | 5075 = 41 34 |
| 12 14 30 | 12 18 45 | Lunæ Diameter | 3717 = 30 34 |
| 27 15 | 31 40 | Fixa à Limbo Lunæ proximo jamq; quoad potui conjicere, erat in eodem Circulo verticali cum Centro Lunæ. | 4037 = 33 11 |
| 41 14 | 45 29 | Fixa à Limbo proximo | 3443 = 28 18 |
| 45 00 | 49 15 | In recta erat cum Porphyride & margine interiori Mareotidis. | |
| 51 15 | 55 30 | A Limbo proximo | 3072 = 25 15 |
| 13 22 25 | 13 26 40 | Isthæc Distantia | 2265 = 18 37 |
| 37 40 | 41 55 | Eadem | 1995 = 16 25 |
| 49 55 | 54 10 | Iterum | 1992 = 16 23 |
| 51 45 | 56 00 | Vel uno forsan citiùs scrupulo horario, Fixa erat in recta linea per cuspides aliquantulum obtusas ducta. | |
| 53 55 | 58 10 | Isthanc lineam spatio duorum Minutorum præterierat. | |
| 55 45 | 14 00 00 | Aberat a Cuspide proximo | 1912 = 15 43 |
| 14 07 35 | 11 50 | Isthæc Distantia repetita | 2084 = 17 08 |
| 37 50 | 42 05 | Eadem iterum | 2980 = 24 15 |
| 41 00 | 45 15 | Rursus denique | 3074 = 25 17 |

*Vide Fig.* 65. Die sequenti, scilicet Octob. 1, post Meridiem, per Solis Altitudines Quadrante antedicto captas, Horologium repertum $4\frac{1}{4}$ scrupulis horariis primis justò tardius; propterea quandoquidem aliquid quotidie perdidit, ob Longitudinem Perpendiculi, aliquantulum justò majorem, retardationem statui ad tempus transitûs duntaxat 4′ 15″, quæ momentis ab Adjutore ad singulam Observationem notatis adjiciendo, Tempora, ut supra, correxi.

19 ♂tis. Saturni Sidere retrogrado incedente haud procul ab exigua Fixa lucis sextæ (quæ à Tychone omissa, ab Hevelio (in Historiola miræ Stellæ, pag. 166) Cœlis asserta Anno ineunte 1661, ponitur in ♉ 7° 58′ 8″, cum Latitudine 3° 22′ 42″) ipsius à Fixa, Hor. 10 05′, Tubo breviori capta Distantia 6191 = 51′ 04″, Planeta per Tubum humilior apparuit quam Fixa.

*Vide Fig.* 66. 21 ♃ii Vesperi. Saturni à Fixa eadem capta Distantia 5534 = 45′ 30″; Tubi enim Longitudo minor erat, scilicet Digitorum $103\frac{1}{10}$ duntaxat, Stellulæ etiam quædam exiguæ circa Planetam apparuêre; tres aliquando me videre putavi, eo fere quo hic conspiciuntur ordine dispositas,

## *Johannis Flamsteedii* OBSERVATIONES Cœleftes.

### ANNO MDCLXXV.

difpofitas, fed Lunæ lux nimia & mira Stellarum parvitas, earum à Saturno dimetiri Diftantias prohibuêre.

Octobris 22 ♀ᵗ Hora 9 P. M. Saturnus ab eadem Fixa 5342 = 43′ 55″.

26 ♂ᵗⁱˢ Hora 8 07′ P. M. idem ab eadem Fixa 4961 = 40′ 48″. Intererat huic Obfervationi E. Halleius, qui iifdem Inftrumentis dimenfus eft ♄ d 2255 = 18′ 31″, ♄ c 1386 = 11′ 24″.

28 ♃ⁱ Vefperi. Cum jam Luna longius à Planeta abceffcrat, feptem omnino Fixas circa Saturnum confpeximus, quarum quæ litera e notatur, etiamfi vix fit minus lucida quam f, nondum locum in editis Catalogis obtinuerat, ceteræ perexiguæ non nifi cum aliquâ Difficultate fuere obfervatæ.

| | | | ′ | ″ | | | | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|
| c ♄ | 1973 | = | 15 | 24 | f d | 5143 | = | 42 | 17 |
| b ♄ | 2146 | = | 17 | 38 | d a | 5306 | = | 43 | 38 |
| d ♄ | 3508 | = | 28 | 51 | f a | 4473 | = | 36 | 45 |
| f b | 5438 | = | 44 | 42 | e c | 6029 | = | 49 | 34 ½ |
| c d | 2599 | = | 21 | 22 | b e | 5880 | = | 48 | 20 |

Hora 8 50′ ♄ f 5170 = 42′ 30″
9 00′ Zf Diftantia fcilicet Azimutharum Planetam & Fixam pertranfeuntium 492 = 4′ 05″.

Angulus Circuli verticalis cum Ecliptica ad hoc Tempus erat 78° 39′, propterea Planeta in Antecedentia Fixæ f 12′ 26″, cum Latitudine minori 41′ 20″. Fixæ nunc Locus ♉ 8° 09′ 38″, Planetæ ergo ♉ 7° 57′ 03″, cum Lat. Auftrali 2° 41′ 22″.

Heckeri Ephemerides ponunt Planetam nunc in ♉ 8° 22′, cum Latitudine Auftrali 2° 43′, fcilicet juftò promotiorem 25′, cum Latitudine obfervata etiam majore 1 ½. *Vide Fig. 67*

Ab his Fixarum obfervatis Diftantiis dantur earum loci & Latitudines ad hoc tempus, fcilicet,

| | | | ° | ′ | ″ | | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|
| Stellæ | a | ♉ | 7 | 44 | 30 | Latitudo | 2 | 56 | 10 |
| | b | | 7 | 41 | 10 | | 2 | 47 | 40 |
| | c | | 8 | 09 | 10 | | 2 | 30 | 12 |
| | d | | 8 | 26 | 30 | | 2 | 43 | 22 |
| | e | | 7 | 25 | 50 | | 2 | 01 | 00 |
| Pofita Fixa | f | in ♉ | 8 | 09 | 38 | cum Lat. | 3 | 22 | 42 |

ut in antedicta Hiftoriola conftituerat doctiffimus Hevelius.

29 ♀ʳⁱˢ Hora 6 39′ ♄ f 5404 = 44′ 26″
6 56′ Fixa aberat ab Azimutha Planetam pertranfeunte paulo plus quam annuli ipfius Diametrum ad dextram.

| h | ′ | | | | ′ | ″ |
|---|---|---|---|---|---|---|
| 7 | 15 | ♄ d | 3974 | = | 32 | 41 |
| | | ♄ c | 2426 | = | 19 | 57 |
| | | ♄ e | 5610 | = | 46 | 06 |

30 ♄ⁱ Cum infirma effem valetudine, folus has cepit & ad me retulit Ed. Halleius Diftantias.

| h | ′ | | | | ′ | ″ |
|---|---|---|---|---|---|---|
| 7 | 19 | ♄ f | 5685 | = | 46 | 44 |
| | 29 | ♄ d | 4584 | = | 37 | 41 |
| | 38 | ♄ c | 2877 | = | 23 | 39 |
| | 47 | ♄ a | 1930 | = | 15 | 52 |
| | 55 | ♄ b | 1278 | = | 10 | 31 |
| | | a b | 1076 | = | 8 | 50 |

Intercontig. in Aure Tauri 624 = 5′ 08″.

## *Johannis Flamsteedii* Observationes Cœlestes.

### ANNO . MDCLXXV.

| | h ′ | | | ′ ″ | | | |
|---|---|---|---|---|---|---|---|
| Novembr. 1 ☽ | 7 15 p.m. | ♄f | 6349 = | 52 12 | Deinde iteravit E. Halleius. | | |
| | 30 | ♄d | 5771 = | 47 27 | h ′ | | |
| | | ♄e | 4898 = | 40 16 | 8 15 | ♄f 6348 | |
| | | ♄c | 3931 = | 32 19 | 20 | ♄d 5793 | |

| | h ′ | | | | | | ′ ″ |
|---|---|---|---|---|---|---|---|
| 3 ☿$^{ii}$ | 7 53 | ♄f | 6378 = 60 40 | cd | 2596 = | 21 21 | |
| | 8 00 | ♄d | 6914 = 56 51 | fc | 6372 = | 52 23 | |
| | | ♄e | 4695 = 38 36 | fd | 5102 = | 41 57 | |
| | | ♄c | 5002 = 41 07 | ca | 4415 = | 36 18 | |
| | | ♄b | 1693 = 13 55 | | | | |

5 ♀$^{ris}$ Vesperi. Distantia inter Fixas duas Telescopicas, quibus post Dies viginti Saturni Sidus appulsurum præcideram capta ab E. H. 2550 = 20′. 50″, deinde

| h ′ | | | ′ ″ |
|---|---|---|---|
| 7 20 | ♄e | 4674 = | 38 26 |
| 7 30 | ♄c | 6018 = | 49 28 |
| | ♄b | 2677 = | 22 00 |

Et inter Pleiadas deinceps, eodem Tubo,

| | | ′ ″ | | | ′ ″ | |
|---|---|---|---|---|---|---|
| ck | 1282 = | 10 32 | lc | 1411 = | 11 36 | |
| ek | 1309 = | 10 46 | kh | 2386 = | 19 37 | gn 3969 = 32′ 38″. |
| kl | 304 = | 2 30 | el | 1190 = | 9 47 | |

19 ♀$^{ris}$ Abinde usque ad 19$^{am}$, cum Cœlum continuò fere Nubibus obductum fuerat, nihil observare potuit, præterquam quod Die 14 Vesperi, Lunæ fuerat Diameter 3693 = 30′ 22″.

| h ′ | | | ′ ″ |
|---|---|---|---|
| 6 44 P. M. | ♄h | 1338 = | 11 00 |
| Declin. Differen. | | 1196 = | 9 50 |

Deinde, post mediam Noctem sequentem, Hor. 16 00′, Luna longiùs aberat ab 8$^{a}$ Arietis, (cujus tunc locus Tychonicus ♉ 13° 59′ 24″, Latitudo 4° 08′ 30″ Bor.) quam etiamnum Tubo capi potuit; sed Fixa alia Telescopica intra Tubum apparuit, haud procul à Limbo Lunæ, cujus Occultationem, cum aer semper ad sextam usque Annotationem extiterit serenissimus, facilè conspexi, ejusque cum ab 8$^{a}$ Arietis, tum à Lunâ, sequentes obtinui Distantias.

| *Hor. correct.* h ′ ″ | | ′ ″ |
|---|---|---|
| 16 08 30 | Telescopica à Limbo remot. | 5270 = 43 20 |
| 17 30 | Octava Arietis à Confinio | 6328 = 52 01 |
| | Fixæ inter se | 5270 = 43 20 |
| 27 45 | Lunæ Diameter | 3622 = 29 47 |
| 44 45 | Telescopica tecta Longitudinem circiter Mareotidis supra Montem Alabastrinum. | |
| 17 08 40 | Octava Arietis à Confinio | 4592 = 37 46 |

*Vide Fig. 68.*

Cum deinceps ab eadem fenestrâ Lunám ampliùs observare non licuerit, ad aliam transtuli Instrumentum, sed priusquàm fulcrum, cui imponeretur, commodè aptare potuit, Luna à vaporibus Thamesis, & fumo è culinis Urbis necessariis excitato, intercepta, languidiùs cepit & rubicundiùs splendere, ut nunquam Fixam deinde reperire, etiamsi maculas lunares minores sat bene postea conspicere potuerim. Hora

## *Johannis Flamsteedii* OBSERVATIONES Cœlestes.

### ANNO MDCLXXV.

Novembr. 21 ☉ⁱˢ Hora 6 35′, ♄h 1046 = 8′ 36″.

Eadem vespera, Hora 8 50′, secundùm editas Conjecturas, Lunæ in eadem Longitudine cum 22ª Tauri (cujus locus Tychonicus ♊ 3° 57′, Lat. 1° 04′ Bor.) apparituræ, Limbus austrinus à Fixa distaret 38′ circiter; Phainomenon ut sequitur observavi, Cœlo in quatuor primis Animadversionibus ad votum sereno.

| Hor. Horol. correcta. h ′ ″ | |
|---|---|
| 8 19 10 | Fixa à Limbo proximo 4315 = 35′ 29″. |
| 24 30 | In recta cum Sinâ & Sancto Petro. |
| 27 05 | In recta cum Sinâ & Calathe. |
| 31 48 | A Limbo Lunæ proximo 4457 = 36′ 39″; tunc Nubes Lunam subeuntes, ipsam detinuêre usque |
| 9 33 05 | Quando ✱ à Limbo 5842 = 48′ 01″; tunc Nubes iterum, usque |
| 52 30 | Cùm distaret à Limbo 6472 = 53′ 13″. |

*Vide Fig.* 69

Protinùs tamen Nubes grandiores, quæ Cœlos undequaque subtegissent, Lunam excipientes, ulteriores quas meditabar Observationes, prohibuêre.

22 ☽ Hora 6 38′ P. M. ♄h 1004 = 8′ 15″, & Distantia ejus à Linea per utrasque Fixas ducta 351 = 2′ 53″; sed vix satis vereor accurata, ob Lunæ nimiam vicinitatem.

23 ♂ᵗⁱⁱ Vesperi, Sequentes cepi Distantias Lunæ recens ortæ à 25ª Geminorum, quam sub Horizonte texerat, cujus locus Tychonicus ad hoc tempus ♊ 26° 25′ Lat. 0° 13′ Aust.

| Hor. Horol correcta. h ′ ″ | | ′ ″ |
|---|---|---|
| 6 13 15 | ✱ à Confinio— | 6245 = 51 21 |
| 16 20 | Isthæc Distantia. | 6485 = 53 19 |
| 19 40 | ————iter. | 6676 = 54 54 |
| 21 40 | ———— | 6832 = 56 10 |
| 24 05 | ———— | 6984 = 57 25 |
| 27 10 | ———— | 7192 = 59 08 |
| 30 00 | ———— | 7398 = 60 50 |

*Vide Fig.* 70

Deinde adeò disposui Micrometrum, ut Fixa per Apicem, in unâ laminarum Distantias dirimentium factam prætereundo, ipsius summitatem duntaxat delibaret; Fixæ primùm, & deinde Lunæ ad hunc expectavi appulsus, quo viderem quænam Maculæ eandem haberent cum Fixâ Declinationem, & quanta fuerat Differentia Ascensionum Rectarum dati in Lunâ puncti, & Fixæ.

Hora 6 33′ 30″, Fixa tangebat Apicem.

Hora 6 38′ 15″, Limbus apparenter superior, verè inferior, Mæotidis eundem tetigit; sed Ætna, Audus, & Circinna, omnes apparenter infra Apicem sunt progressi; tandem Limbus Lunæ remotior ad eundem locum pervenit Hor. 6 40′ 15″.

Paulo post Horam septimam ejusdem Noctis, Luna 14ª Geminorum intra mensurabilem Distantiam appropinquabat; Fixæ locus Tychonicus nunc ♊ 28° 56′, Latitudo 0° 58′ Austr. è qua

| Hor. corr. h ′ ″ | | ′ ″ |
|---|---|---|
| 7 20 10 | Lunæ Limb. prox. aberat | 5796 = 47 39 |
| 22 30 | Iterum———— | 5696 = 46 49 |
| 29 00 | Lunæ Diameter——— | 3675 = 30 13 |
| 36 00 | Iterata———— | 3685 = 30 18 |

*Vide Fig.* 71

Hucus-

## *Johannis Flamsteedii* OBSERVATIONES Cœlestes.

### ANNO MDCLXXV.

Novembr. 23 ♂ Hucuſque Cœlum extiterat valde ſerenum, ſed jam Nubes tenues Lunam ſubeuntes eam detinuere uſque Hor. 9 39′ 00″, cum Stellæ iterum cepi à limbo Lunæ proximo Diſtantiam 3650 = 30′ 00″. Deinde Nubes ſpiſſiores Lunam excipientes, ejus nos conſpectu privabant, unaque ſpe plura hac Nocte obſervitandi, nec ampliùs profectò ſudum fuerat.

29 ☽ Occultationem 33^æ Leonis, cujus locus Tychonicus ♍ 19° 52′, Latitudo 5° 41′ Auſtr. promittebant Ephemerides circa Horam 13 ½ P. M. Nubes tamen denſæ cælos undiquaque eâ Nocte ſubtegentes, Lunam orientem excepêre, & è conſpectu meo detinuere uſque Hor. 3 poſt mediam Noctem; tunc autem iis circa Lunam dehiſcentibus, ſequentes per hiatum amplum Fixæ, jam à Luna emerſæ, à limbo ejus cepi Diſtantias.

*Vide Fig.* 72.

| *Hor. Horol.* h ′ ″ | *correcta.* h ′ ″ | | ′ ″ |
|---|---|---|---|
| 15 18 15 | 15 24 45 | Fixa à cuſpide inferiori | 3454 = 28 24 |
| 21 30 | 28 00 | à cuſpide ſuperiori | 3716 = 30 30 |
| 23 15 | 29 45 | Ab inferiori iterum—— | 3679 = 30 15 |
| 26 00 | 32 30 | A limbo remotiori —— | 5320 = 43 44 |

Adeo deinceps diſpoſito Inſtrumento ut Fixa per Apicem antememoratum, in altera laminarum factum, incederet detentoque Tubo immoto, donec ad eum Luna adpelleret, duas comperi partes Diſtantiæ, inter Lacum Nigrum majorem & limbum Lunæ, in tres diviſæ, & à limbo Lunæ numeratas per eundem Apicem in tranſitu abſcindi. Lacus Niger erat in ipſa Sectione, & in maximâ fere ipſius à limbo Lunæ Diſtantia; Ætna etiam & Circinna multùm ad Auſtrum libratæ, Luna ſenſibiliter cava: Nubes deinceps denſæ, Lunam ſubeuntes, ejus me conſpectu privabant, nec ampliùs hac Nocte ſudum fuerat.

Decembr. 1 ☿ Sequente Veſperi, ab Altitudinibus lucidæ Pleiadum Quadrante tripedali Teleſcopico captis, Horologium tempora juſtò tardiora oſtendere compertum ſcrupulis horariis 5′ 12″

2 ♃ Hora 5 ½ P. M. ſolummodo 4′ 20″.

5 ☉ Hora 5 ½ duntaxat 1′ 45″. Unde liquet Horologium juſtò velociùs proceſſiſſe quotidie ſcrupulis ſecundis 52″; & ſervatâ retrò Accelerationis proportione Novembris 30 manè, tardiùs fuiſſe juſtò 6′ 30″; quamobrem tot ſcrupulos, notatis in iſthac Obſervatione ab Horologio momentis, adjeci.

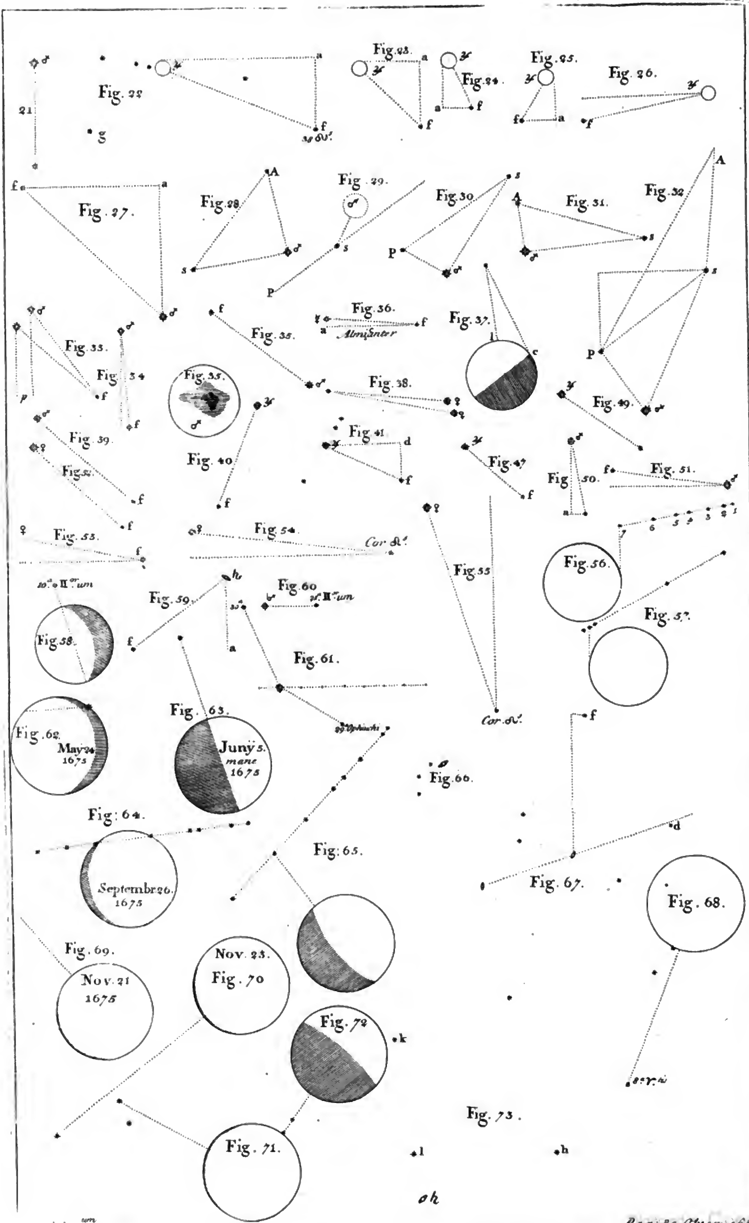
Oxonii Cœlum longè extiterit ſereniùs, ubi obſervante D. Halleio,

| | ° ′ ″ | *Hor. ſupput.* h ′ ″ |
|---|---|---|
| Immerſio ✳^æ, alta lucida in limbis Leonis ———— | 36 55 ½ | 13 55 30 |
| Emerſio alta eadem ———— | 46 34 | 15 01 13 |
| Diſtantia ejus à limbo æqualis Longitudini Paludis Mareotidis alta eadem. | 47 07 | 15 05 12 |

Tubo pedum 13, Quadrante pedum 4, Radio.

*Vide Fig.* 73

| | *Hor. cor.* h ′ | | ′ ″ |
|---|---|---|---|
| Decembr. 1 ☿ Grenovici ———— | 7 36 | ♄ h | 3934 = 32 20 |
| | 47 | ♄ k | 6220 = 51 29 |
| | | h k | 7230 = 59 27 |
| | | h i | 2590 = 21 18 |


Fig. 22
Fig. 23
Fig. 24
Fig. 25
Fig. 26
Fig. 27
Fig. 28
Fig. 29
Fig. 30
Fig. 31
Fig. 32
Fig. 33
Fig. 34
Fig. 35
Fig. 36
Almicanter
Fig. 37
Fig. 38
Fig. 39
Fig. 40
Fig. 41
Fig. 47
Fig. 49
Fig. 50
Fig. 51
Fig. 53
Fig. 54
Cor ♌
Fig. 55
Fig. 56
Fig. 57
Fig. 58
Fig. 59
Fig. 60
Fig. 61
Fig. 62
May 24 1675
Fig. 63
Juny 5. mane 1675
Fig. 64
Septembr 26. 1675
Fig. 65
Fig. 66
Fig. 67
Fig. 68
Fig. 69
Nov. 21 1675
Nov. 23.
Fig. 70
Fig. 71
Fig. 72
Fig. 73

*Johannis Flamsteedii* OBSERVATIONES Cœleftes.

ANNO MDCLXXV.

Decembr. 5 ☉ⁱˢ Vefperi.

| Hor.cor. | | | |
|---|---|---|---|
| h ′ | | | ′ ″ |
| 5 53 | ♄ h | 5535 = | 45 30 |
| 58 | h l | 5258 = | 43 14 |
| | k l | 4232 = | 34 48 |
| | k h | 7205 = | 59 24 |

vel forfan paulo ampliùs; juftò enim arctior aliquantulum videbatur Intercapedo Marginum Diftantiam dirimentium; ♄ l 1794 = 14′ 45″, perpendicularis à Saturno demiffa, ad lineam ductam per l h incidebat; at finiftram à Fixula l eratque Planeta paululum tranfgreffus Rectam per k l. Hora 5 58′, Fixæ l & h in æquali fere fuêre Altitudine.

11 ♄ⁱ Conjecturæ meæ ab Ephemeride Heckeri deductæ oftendebant Lunam tecturam 12ᵃᵐ Aquarii, lucis 5ᵃ, circa 7 h ¼ poft Meridiem; Fixæ locus Tychonicus ♓ 4° 54′ ½, Latitudo Septentrionalis 4° 08′. Cœlum circa 5ᵃᵐ P. M. erat fereniffimum; tunc ad inveftigandum Horologii errorem Altitudines cepi:

| Hor. Horol | | Altit. | Hor. fupp. | per Horolog. | |
|---|---|---|---|---|---|
| h ′ ″ | | ° ′ | h ′ ″ | ′ ″ | |
| 4 58 10 | Lucidæ Pleiadum | 31 10 | 4 54 06 | − 4 04 | |
| 5 57 45 | Aldebaræ | 27 17 | 5 53 32 | − 4 13 | deinde |

| | Correcta. | |
|---|---|---|
| | h ′ ″ | |
| 5 15 00 | 5 10 50 | Lunæ Diameter 3647 = 29′ 59″ vix fatis accurata vereor, ventus enim requifitam Tubo quietem non permittebat. |
| 5 51 30 | 5 47 20 | ✱ᵃ à limbo obfcuro Lunæ 4490 = 36′ 55″. |
| 6 56 15 | 6 52 05 | ✱ᵃ à limbo remotiori lucido 5005 = 41′ 08″. Lunam iterum |
| 7 18 15 | 7 14 05 | & in propinquo Fixam per Nubes tenues prætervolantes con- |

fpexi; attamen quantùm à limbo diftiterit animadvertere non potui, per paucula enim temporis fecunda fcrupula emicuit, mox à denfioribus Nubibus excepta latuit fuum ufque ad Occafum. *Vide Fig.* 74

12 ☉ⁱˢ Secundùm antedictas conjecturas, Hor. 9 50′ P. M. Lunæ in eadem Longitudine cum 5ᵃ Pifcium verfantis limbus auftrinus ab ipfa diftaret unum folummodo vel alterum fcrupulum, Fixæ locus Tychonicus ♓ 18° 23′ ½, Lat. Bor. 4° 27′. Cœlum ab Hora quinta ad fextam fereniffimum extiterit: Interea Fixarum pro emendatione Horologii quafdam cepi Altitudines, Lunæque Diametrum, & fequentes Macularum quarundam à Cufpidibus Diftantias.

| Hor. Horol | | Altit. | Hor. inde fup. | |
|---|---|---|---|---|
| h ′ ″ | | ° ′ | h ′ ″ | ′ ″ |
| 5 03 40 | Lunæ altæ 37 ½, Diameter 3717 = 30′ 33″. | | | |
| 13 25 | Lucidæ Pleiadum | 34 04 | 5 08 28 | − 4 57 |
| 15 25 | ——— | 34 22 ½ | | |
| 20 18 | ——— | 35 10 | | |
| 23 44 | ——— | 35 41 | 5 18 58 | − 4 46 |
| 50 02 | Aldebaræ ——— | 26 41 ½ | 5 45 20 | − 4 42. |

| | | |
|---|---|---|
| Cafpiæ limbus remotior à Cufpide inferiori | 2105 = | 17 18 |
| Mofchorum proximus ab eodem Cufpide — | 2125 = | 17 28 |
| a limbo ——— | 1203 = | 9 54 |
| Cafpiæ tota Longitudo ——— | 456 = | 3 45 |
| Limbus proximus à limbo Lunæ ——— | 163 = | 1 20 |

Paulo

## *Johannis Flamsteedii* OBSERVATIONES Cœleſtes.

### ANNO MDCLXXV.

Decembr. 12 ☉' Paulo ante ſextam Nubes tenues, ab Africo ſurgentes, Lunam vexare cœperunt, quas mox denſiores ſequebantur, per quarum hiatus duas has ſolummodo Diſtantias Fixæ à Cuſpidibus Lunæ dimetiri licuerit.

| *Hor. Horol.* h ′ ″ | *Correct.* h ′ ″ | | ′ ″ |
|---|---|---|---|
| 7 52 30 | 7 47 45 | ✱ à Cuſpide ſuperiori | 6220 = 51 08 |
| 57 48 | 53 03 | à Cuſpide inferiori | 6870 = 56 30 |

*Vide Fig.* 75 Nubibus deinceps frequentiùs ſub Lunam recurrentibus, nunquam eam poſtea tamdiu in conſpectu habuimus, ut interea Fixæ ab ea Diſtantiam capere liceret; Hora vero 10ª ſub iis prorſus condebatur, ut nulla ſpes ſupererat eam hac Nocte iterum videndi.

17 ♀ris Oſtendente Diario Lunæ circa 6 h ½ P. M. in eadem Longitudine verſaturæ, cum decima Arietis lucis quintæ, limbus auſtrinus ab ipſa diſtaret 6′ circiter ſcrupulos primos. Fixæ locus Tychonicus ♉ 17 26 ½, Lat. 2° 50′ Sept. Cœlum mihi hujus Phainomeni Obſervationem auſpicanti arriſit ſerenum, ſed mox Nubibus denſiſſimis obductum ſequentes ſolummodo capi Diſtantias permiſit.

*Vide Fig.* 76

| *Hor. Horol.* h ′ ″ | *Correct.* h ′ ″ | | ′ ″ |
|---|---|---|---|
| 5 33 30 | 5 25 52 | ✱ à Confinio | 1510 = 12 24 |
| 35 37 | 27 59 | repetita | 1358 = 11 08 |
| 42 00 | 34 32 | ✱ à limb. rem. | 4453 = 36 33 |
| 48 05 | 40 27 | Iterata —— | 4250 = 35 18 |

Peracta hac Obſervatione Nubes denſæ Lunam ſubiere, ſub quibus delituit uſque Horam ſeptimam; tunc autem ipſam rurſus per hiatum vidi; Stella jam in Antecedentia Lunæ apparuit, & à limbo proximo remotior quàm antea fuerat è Confinio; ſed ſpiſſiores Nubes ſupervenientes, eam è conſpectu meo eripuêre, priuſquam Diſtantiam dimetiri licuerit, per quas tamen Hora 7 14′ 30″ per Horologium, altâ Lunâ 54° ½, ejus cepi Diametrum 3633 = 29′ 49″ ſatis præciſè.

21 ♂is Circa Hor. 8 Veſperi, Luna appulſum fecit ad 20um Geminorum: Deinde poſt mediam Noctem ſequentem, Eclipſin in umbris terræ patiebatur; attamen cum Cœlum à Meridie ad occaſum Solis totum Nubibus denſiſſimis pluvia continua & vento valido inhorruerat, vix ſpem habui vel Appulſum vel Eclipſin obſervandi. Circa ſextam Nubes aliquantulum dehiſcere cœperunt, Lunaque per Aerem fœculentum inter hiatus prætervolantium aliquando languidè emicuit; brevi tamen poſtea Nubibus obſcuriſſimis rurſus erepta latuit; exinde uſque ad undecimam evigilavi, tunc autem, cum undique iis obductum Cœlum exſtiterat, plureſque ex Africo continuò exſurgerent, fruſtrà me diutiùs ſerenitatem expectaturum exiſtimans, domum redii, relicto cum Inſtrumentis Servo, qui, ſi rurſus Luna exſplendeſceret, me veniret acceſſitum; accidit tamen præter ſpem, ut circa ſecundam poſt mediam Noctem, ſeparatis Nubibus, rurſus in conſpectum prodierit, cujus ille opportunitatis me monendum venit; admonitus, ad Inſtrumenta adproperavi, ubi alius me paululum turbavit caſus, ſponte enim ceſſarat Horologium, quod tamen deducto Pendulo à Perpendiculo rurſus moveri feci, diſpoſitis Indicibus ad Horam æſtimatam una & amplius, ut deinceps innotuit juſtò provectiorem; Tubo tunc novem pedali Lunam cœpi contemplari, cujus in ima apparenter ora unum ferè digitum deficientem veris umbris inveni, cuſpidibus Horizonti fere parallelis; tardè Luna per vapores fœculentos emicabat, qui penumbram adeò aggravabant, ut difficilè fuerat ipſam ab umbra vera diſcriminare: Exinde ad finem uſque Defectûs in conſpectu manſit, niſi quod bis vel ter Nubes ipſam ſubibant denſiores, ſub quibus quoties delituit, Altitudinibus Arcturi & Stellæ lucidæ in Corona, tunc in altera, & defecatiori Cœlorum cardine emicantium, captandis incubui; ſic ſequentes præter ſpem Obſervationes obtinui, & correcta Tempora.

*Hor.*

## *Johannis Flamsteedii* OBSERVATIONES Cœleftes.

### ANNO MDCLXXV.

| Decembr. | Hor. Horol | Correcta. | |
|---|---|---|---|
| 21 ♂ tii | h ′ ″ | h ′ ″ | |
| | 15 34 00 | 14 29 30 | Inter Cufpides veræ Eclipfis 2035 = 17′ 16″. |
| | 16 00 15 | 55 45 | Umbra fere tetigit Hæmum. |
| | 5 00 | 15 00 30 | Hæmum certè tetigit. |
| | 16 00 | 11 30 | Cufpis dexter à Mareotidè 1235 = 10′ 14″. |
| | 39 30 | 35 00 | Partes lucidæ refiduæ 2800 = 23′ 11″; vel forfan paulo plures, difficile enim fuerat umbræ veræ terminum per Aerem fœculentum definire: |
| | 47 00 | 42 30 | Umbra prope Macram. |
| | 57 15 | 52 45 | Inter Cufpides 2288 = 18′ 17″. |
| | 17 11 45 | 16 07 15 | Finis. Limbus enim apparuit, & nil videbatur in rotunditate Lunæ defiderari. |
| | 12 30 | 8 00 | Limbus admodum dilucidè per Tubum confpectus. |
| | 20 00 | 15 30 | Penumbra, quæ nudis Oculis Eclipfin referebat. |
| | 24 00 | 19 30 | Lunæ capta Diameter 3757 = 31′ 05″; fed vix vereor accurate, ventus enim Tubum agitans & propellans, iterari Menfuram non permifit, quam tamen à veritate haud multum abeffe puto. |
| | 17 28 00 | 16 23 30 | Etiamnum, & poftea, Limbus ab umbra vera derelictus, obfcurior apparuit ac alter: cepi præterea Corficæ à Limbo remoto Diftantiam ——————— 2732 = 22 37 |
| | | | Limbus ejus proximus à proximo Lunæ — 1045 = 8 39 |
| | | | Sinæ Limbus remotior à proximo Lunæ — 599 = 4 58 bona |
| | | | Lacus nigri majoris medium à Limb. prox. 452 = 3 45 |

Interea, pro corrigendo Horologio, Altitudines acceperam:

| Hor. Horol | | | Hor. fupp. | Err. Horol. |
|---|---|---|---|---|
| h ′ ″ | | ° ′ | h ′ ″ | ° ′ ″ |
| 15 49 15 | Arcturi ——— | 30 08 | 14 44 35 | —1 04 40 |
| 16 03 00 | ——————— | 32 17 | 14 58 27 | —1 04 33 |
| 25 35 | ——————— | 35 46 | 15 21 04 | —1 04 31 |
| 53 35 | ——————— | 39 59 | 15 48 59 | —1 04 36 |
| 17 39 40 | Lucidæ in Corona | 39 59 | 16 35 08 | —1 04 32 |
| 51 35 | ——————— | 41 52 | 16 47 16 | —1 04 20 |

Animadverti etiam quod Umbra femper diftinctior apparuit ad cornua quàm aliubi in facie Lunæ; & in prima Obfervatione, vel paulo antea, cornua fuere Horizonti parallela.

Tunc etiam Porphyrites, & Lacus niger major, æqualiter ex Umbra extitere, Longitudinem fcilicet Mareotidis circiter.

Nunquam tamen Porphyriten fuperavit in hac Eclipfi, alte illum femel in Penumbra merfam vidi, fed tempus Adjutore perito deftitutus notare non potui.

In fumma Eclipfi ad Corficam fere Umbra pertigerit; nunquam tamen eam penitus extinctam vidi, fed altè adeò in Penumbram immerfam, ut ægrè eam cernere potueram; fed impedimento forfan Aer erat, clarioremque & ab Umbra viderint remotiorem, quibufcunque in Aere defecatiore Defectum hunc confiderare contigerit.

Nec unquam Umbra vera Infulam Macram pervagabatur, fed Penumbra duntaxat denfa, per quam difficile fuerit ipfam percipere.

Imminente exitu in eum intentus, Servum elatâ voce Minuta ab Horologio indicata numerare juffi, quò faciliùs in proxima camera Momenta Obfervationum cognofcerem; fic, cum numeraret ille 10′ poft Horam quintam Horologii, etiamfi Aer peropportune factus fuerat ferenior, Limbum tamen videre non potui; nec cum numeraret 11′, eo tamen pronunciante 11′ 30″, putavi me videre Limbi lucem, fed languidiffimam, 11′

 45″,

*Johannis Flamsteedii* OBSERVATIONES Cœlestes.

ANNO MDCLXXV.

Decembr. ♂tis 21

45″, certior sum ex umbris emersisse, nec aliquid in ejus rotunditate desiderari; ergo tunc finem observatum statuo; 12′ 30″ dilucide admodum Limbus apparuit.

Exibat Umbra juxta Lacum Hyperboreum superiorem, manente Penumbrâ, quæ Eclipsin nudis Oculis referebat, usque 17 h 20′ Horologii, vel 16 h 15′ ½ P. M. veré. Sed Limbus ab Eclipsi derelictus oppositi claritudinem recuperaverat non nisi Hora 17 28′ per Horologium, vel 16 23′ ½ P. M. veré.

Initium Eclipsis acciderat antequam ad Instrumenta veni, quod tamen Londini observavit Halleius, cum Limbus Lunæ superior à vertice distaret 39° 51′, unde Horam supputavit 14 16′ P. M. deinde eodem Limbo distante à vertice 41° 01′, i. e. Hor. 14 25′, cornua fuêre Horizonti parallela: Denique cum ea esset Distantia 54° 12′, i. e. Hora 15 58′, uno vel altero scrupulo in Diametro Lunæ deficiente, ipsa Nubes subiit, sub quibus delituit donec ex Umbra evaserat; sic ipsi finis non conspectus, ut neque Johanni Coelsono, qui in Vico Wapingensi, ad Anachoretum (Anglicè *The Hermitage*) exiguam partem in Diametro Lunæ deficientem viderat Hor. 14 17′ ½, Hora verò 16 09′ 25″, Lunâ è Nubibus emergente, & ipsam ex Umbris etiam emersisse Terræ, Penumbra duntaxat densa in Limbo suo remanente.

Domesticis his accedunt peregrinæ ejusdem Defectûs Observationes à clarissimis Viris, Hevelio, Cassino, Bullialdo, Gedani & Parisiis habitæ; ut etiam Argentinensis, Domini Julii Reischelt à Bullialdo communicata, omnes cum nostris mirum in modum consentientes, quas propterea Ordine hic referam, & Hevelii primùm.

Notatu dignum (sic scribit Vir doctissimus) in hac Eclipsi præprimis exstitit, quod Penumbra ab Horâ statim 2 36′ 40″ inceperit, nam ea Parte ad Montem Baronium & Sinum Apollinis, eo tempore, jam paulo obscurior Limbus Lunæ videbatur, quæ Penumbra deinde successive densior evasit, ita ut Hor. 3 08′ jam satis notabilis exstiterit: Ipsum vero initium Eclipsis primum Hora 3 30′, hic Gedani contigit, cum tamen juxta Calculum Rudolphinum 16′ citiùs incidere debuisset. Pariter Quantitas integrum digitum minor exstitit quam Calculus eam promiserat, quippe non nisi 3 ½ Dig. obscurati, utut Calculus eam 4 Dig. 25′ ostenderat. In hâc Eclipsi probè quoque notandum est, quod omnes Sectiones nunquam Montem Porphyriten omnino texerint, sed ille per totam durationem, etiam in ipsa maximâ obscuratione, in ipso Umbræ Limbo conspicuus perstiterit: sic ille, cui Nubes omnes ferè Phases post mediam Eclipsin cum fine simul eripuêre.

Lutetiæ, uti cum ad Oldenburgium tum ad me scribit clarissimus Cassinus, Cœlum fuerat serenissimum, ipsoque cum Domini Picardo & Romero communi consensu Phases determinantibus, observatum,

| | h | ′ | ″ |
|---|---|---|---|
| Initium | 14 | 24 | 35 |
| Sexta Pars Circumferentiæ abscissa | 14 | 38 | 05 |
| Iterum sexta Pars abscissa | 16 | 02 | 25 |
| Finis | 16 | 15 | 25 |

Collatis deinde nostratium cum illorum Observationibus, addit ille, "Cæterum in "situ Umbræ & Eclipsis magnitudine planè cum D. Flamstedio convenimus, ab utris- "que quippe nostrum notatum est Umbram nunquam superâsse Porphyriten, licet is "alte in penumbram fuerit immersus; Porphyritidi proximus est mons parvus albicans, "quem tunc Aristarchi comitem appellavimus, eo quod ab ipso, seu Porphyritide, vix "distet sui Diametro; is monticulus immersus est in Umbram, Hor. 2 51′ 15″; e- "mersit autem 3 h 08′ 25″, totoque tempore interjecto Umbra fuit Porphyritidi "proxima.

"Uterque pariter annotavimus, in summa Eclipsi Umbram ad Corsicam fere pertigisse, "nunquam tamen ab ea fuisse tectam, sed relictum exiguum intervallum cujus termini "Distantia à Lunari Margine proximo capta est 8′ 17″, cum Flamsteedius insulæ ip- "sius paulo remotioris Distantiam ab eodem Limbo invenerit 8′ 39″; Insulam quo- "que,

*Johannis Flamsteedii* OBSERVATIONES Cœlestes.

ANNO MDCLXXV.

Decembr. ♂ 21 " que, seu potius Peninsulam Macram utrique Umbræ diutissime adjacentem conspeximus, nos id fieri cepisse notavimus Hor. 3 28′ 15″, & per Horæ Quadrantem in eadem Distantia perseverasse.

Parisiis etiam sibi observatum asserit Ismael Bullialdus:

| *Alt. Capell.* | | | | | |
|---|---|---|---|---|---|
| o | ′ | h ′ ″ | | | |
| 29 | 36 | 2 | 06 | 12 | Penumbra tenuis. |
| 40 | 42 | 2 | 12 | 07 | Penumbra crassior. |
| 41 | 48 | — | — | — | Obscurior adhuc. |
| 42 | 30 | 2 | 23 | 32 | Initium sensibile è regione Sinus Hyper. circa gr. 70. |
| 50 | 30 | 3 | 17 | 51 | Attigit Sinum Peronticum, mont. Pyrum, & med. Pal. Hyp. Bor. |
| 58 | 30 | 4 | 13 | 56 | Finis verus e regione Macrocemniorum. |

circa gradum Limbi 355°.

" Corsicam, subjungit, non attigit Umbra, neque Lacum Thrasimenum, propterea Eclipsis non excessit Digitos 3° 30′, vel minor erat etiam.

" Initium uno scrupulo primo vel 45′ antecessit adnotatam, ita ut statui exactias possit, Hora 14 22′ 32″; hinc tota duratio præcise satis 1 h 51′ 24″, quare maxima Obscuratio contigit Hor. 15 18′ 14″, P. M.

Argentinæ, observavit D. Julius Reischelt, Professor Mathematum, utcunque ut ipse scribit, ob nondum perfecta correctiora Instrumenta.

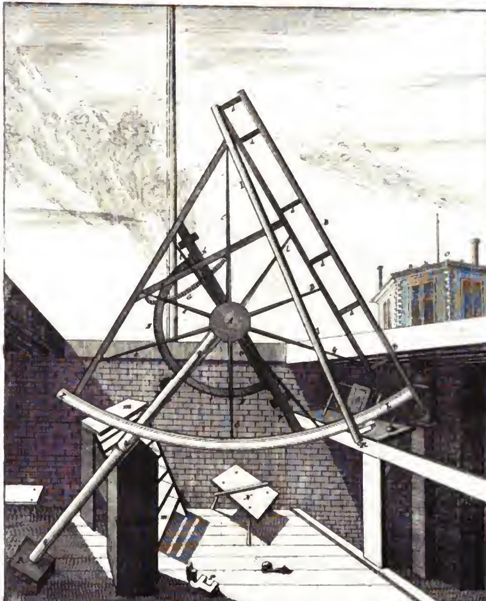
| *Alt. Arctur* | | *supputat.* | | | |
|---|---|---|---|---|---|
| o | ′ | h | ′ | ″ | |
| 30 | 30 | 14 | 48 | 48 | Initium. |
| 39 | 50 | 15 | 45 | 44 | Umbra strinxit Lacum Thrasimenum, Montem Baronisum, & Sinum Circinitem. |
| 48 | 30 | 16 | 41 | 44 | Desiit in regione Hyperborea mediâ, ad Mare Hyperboreum. |

Præcipuas duntaxat hujus Defectûs Phases ab ipsis Observatorum Autographis Epistolis descripsi; reliquas si quis cupit, adeat Acta Philosoph. D. Oldenburgii pro Mensibus Martii, Aprilis, & Maii, Anni 1676, sub numeris 124, 125, & 126, quibus plenarie descriptas inveniet.

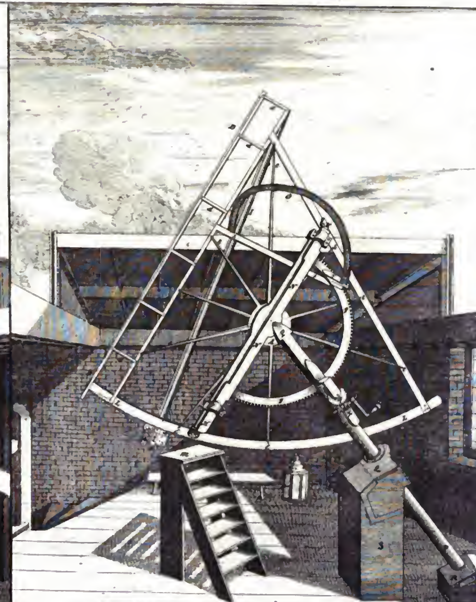
TABULA

TABULA ostendens Scrupulos Gradus primos & secundos Revolutionibus & Partibus e Micrometro numeratis respondentes.

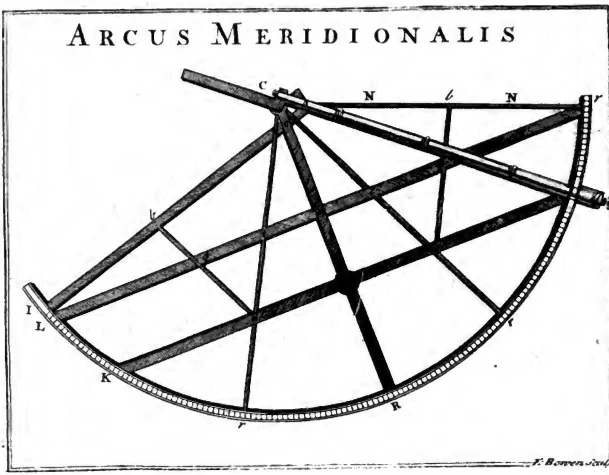
| Tubo Digitorum 164. | | | | | | Tubo Digitorum 171. | | | | | | Tubo Digitorum 85. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | Part. | ″ | Pts | ″ | Part. | ′ | Part. | ″ | Pts | ″ | Part. | ′ | Part. | ′ | Part. | ″ | Pts |
| 1 | 167 | 1 | 3 | 31 | 87 | 1 | 174 | 1 | 3 | 31 | 90 | 1 | 87 | 41 | 3555 | 2 | 3 |
| 2 | 335 | 2 | 6 | 32 | 90 | 2 | 349 | 2 | 6 | 32 | 93 | 2 | 173 | 42 | 3642 | 4 | 6 |
| 3 | 502 | 3 | 8 | 33 | 92 | 3 | 523 | 3 | 9 | 33 | 96 | 3 | 260 | 43 | 3729 | 6 | 9 |
| 4 | 670 | 4 | 11 | 3 | 95 | 4 | 697 | 4 | 12 | 34 | 99 | 4 | 347 | 44 | 3816 | 8 | 12 |
| 5 | 837 | 5 | 14 | 35 | 98 | 5 | 872 | 5 | 14 | 35 | 102 | 5 | 434 | 45 | 3902 | 10 | 14 |
| 6 | 1003 | 6 | 17 | 36 | 101 | 6 | 1046 | 6 | 17 | 36 | 104 | 6 | 520 | 46 | 3989 | 12 | 17 |
| 7 | 1171 | 7 | 19 | 37 | 103 | 7 | 1221 | 7 | 20 | 37 | 107 | 7 | 607 | 47 | 4076 | 14 | 20 |
| 8 | 1338 | 8 | 22 | 38 | 106 | 8 | 1395 | 8 | 23 | 38 | 110 | 8 | 694 | 48 | 4162 | 16 | 23 |
| 9 | 1506 | 9 | 25 | 39 | 109 | 9 | 1569 | 9 | 26 | 39 | 113 | 9 | 780 | 49 | 4249 | 18 | 26 |
| 10 | 1673 | 10 | 28 | 40 | 112 | 10 | 1744 | 10 | 29 | 40 | 117 | 10 | 867 | 50 | 4336 | 20 | 29 |
| 11 | 1840 | 11 | 31 | 41 | 115 | 11 | 1918 | 11 | 32 | 41 | 120 | 11 | 954 | 51 | 4423 | 22 | 32 |
| 12 | 2008 | 12 | 34 | 42 | 118 | 12 | 2093 | 12 | 35 | 42 | 123 | 12 | 1041 | 52 | 4509 | 24 | 35 |
| 13 | 2175 | 13 | 36 | 43 | 120 | 13 | 2267 | 13 | 38 | 43 | 126 | 13 | 1127 | 53 | 4596 | 26 | 38 |
| 14 | 2343 | 14 | 39 | 44 | 123 | 14 | 2442 | 14 | 41 | 44 | 129 | 14 | 1214 | 54 | 4683 | 28 | 40 |
| 15 | 2510 | 15 | 42 | 45 | 126 | 15 | 2616 | 15 | 44 | 45 | 132 | 15 | 1301 | 55 | 4770 | 30 | 43 |
| 16 | 2676 | 16 | 45 | 46 | 129 | 16 | 2790 | 16 | 46 | 46 | 134 | 16 | 1387 | 56 | 4856 | 32 | 46 |
| 17 | 2843 | 17 | 47 | 47 | 131 | 17 | 2965 | 17 | 49 | 47 | 137 | 17 | 1474 | 57 | 4947 | 34 | 49 |
| 18 | 3011 | 18 | 50 | 48 | 134 | 18 | 3139 | 18 | 52 | 48 | 140 | 18 | 1561 | 58 | 5030 | 36 | 52 |
| 19 | 3178 | 19 | 53 | 49 | 137 | 19 | 3313 | 19 | 55 | 49 | 143 | 19 | 1648 | 59 | 5116 | 38 | 55 |
| 20 | 3346 | 20 | 56 | 50 | 139 | 20 | 3488 | 20 | 58 | 50 | 146 | 20 | 1734 | 60 | 5203 | 40 | 58 |
| 21 | 3513 | 21 | 59 | 51 | 142 | 21 | 3662 | 21 | 61 | 51 | 149 | 21 | 1821 | 61 | 5290 | 42 | 61 |
| 22 | 3681 | 22 | 62 | 52 | 145 | 22 | 3837 | 22 | 64 | 52 | 152 | 22 | 1908 | 63 | 5377 | 44 | 64 |
| 23 | 3848 | 23 | 64 | 53 | 148 | 23 | 4011 | 23 | 67 | 53 | 155 | 23 | 1994 | 63 | 5463 | 46 | 66 |
| 24 | 4016 | 24 | 67 | 54 | 151 | 24 | 4186 | 24 | 70 | 54 | 158 | 24 | 2081 | 64 | 5550 | 48 | 69 |
| 25 | 4183 | 25 | 70 | 55 | 153 | 25 | 4360 | 25 | 73 | 55 | 161 | 25 | 2168 | 65 | 5637 | 50 | 72 |
| 26 | 4350 | 26 | 73 | 56 | 156 | 26 | 4534 | 26 | 75 | 56 | 163 | 26 | 2255 | 66 | 5723 | 52 | 75 |
| 27 | 4518 | 27 | 75 | 57 | 158 | 27 | 4709 | 27 | 78 | 57 | 165 | 27 | 2341 | 67 | 5810 | 54 | 78 |
| 28 | 4685 | 28 | 78 | 58 | 161 | 28 | 4883 | 28 | 81 | 58 | 168 | 28 | 2428 | 68 | 5897 | 56 | 81 |
| 29 | 4853 | 29 | 81 | 59 | 164 | 29 | 5057 | 29 | 84 | 59 | 171 | 29 | 2515 | 69 | 5984 | 58 | 84 |
| 30 | 5019 | 30 | 84 | 60 | 167 | 30 | 5232 | 30 | 87 | 60 | 174 | 30 | 2602 | 70 | 6070 | 60 | 87 |
| 31 | 5185 | | | | | 31 | 5406 | 31 | | | | 31 | 2688 | 71 | 6157 | | |
| 32 | 5353 | | | | | 32 | 5581 | 32 | | | | 32 | 2775 | 72 | 6244 | | |
| 33 | 5520 | | | | | 33 | 5755 | 33 | | | | 33 | 2862 | 73 | 6330 | | |
| 34 | 5688 | | | | | 34 | 5929 | 34 | | | | 34 | 2948 | 74 | 6417 | | |
| 35 | 5855 | | | | | 35 | 6104 | 35 | | | | 35 | 3035 | 75 | 6504 | | |
| 36 | 6022 | | | | | 36 | 6278 | 36 | | | | 36 | 3122 | 76 | 6591 | | |
| 37 | 6190 | | | | | 37 | 6453 | 37 | | | | 37 | 3209 | 77 | 6677 | | |
| 38 | 6357 | | | | | 38 | 6627 | 38 | | | | 38 | 3295 | 78 | 6754 | | |
| 39 | 6525 | | | | | 39 | 6801 | 39 | | | | 39 | 3382 | 79 | 6851 | | |
| 40 | 6692 | | | | | 40 | 6976 | 40 | | | | 40 | 2469 | 80 | 6938 | | |



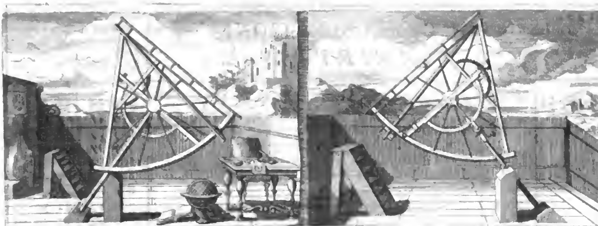
*Facies Sextantis Anterior 7 ped: Rad:.*



*Facies Sextantis Posterior 7 ped: Rad:.*



ARCUS MERIDIONALIS



L. du Guernier deli. & Sculp.

# HISTORIÆ COELESTIS

## LIBRI PRIMI, PARS SECUNDA;

## Stellarum Fixarum Distantias, GRENOVICI In Observatorio Regio, Ab Anno 1676, ad Annum 1689, SEXTANTE Captas, COMPLECTENS.

### OBSERVATIONES FIXARUM.

| ANNO CHRISTI MDCLXXVI. | | IN CONSTELLATIONE *ARIETIS.* | | Distantiæ per lineas diagonales. | Distantiæ per Cochleæ Revolutiones & circuli partes Respondentes. | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mense, Die. Styl. Vet. | Temp. App. H. M. | | | ° ′ ″ | Revol. | Cent. | ° | ′ | ″ |
| ☉ Oct. 29 | 12 02 | *Aldebaran* & Arietis Prima | γ | | 925 | 46 | 38 | 38 | 43 |
| | | Arietis Secunda | β | | 918 | 24 | 38 | 20 | 39 |
| | | Arietis Lucida | α | | 850 | 92 | 35 | 32 | 16 |
| | | *Corn.♉ Aust.&* | ν | | 992 | 24 | 41 | 26 | 04 |
| | | | γ | | 1253 | 14 | 52 | 19 | 55 |
| ☽ Nov. 6 | 10 50 | *Aldebaran* & | α | | 850 | 82 | 35 | 32 | 02 |
| ♃ 23 | 10 53 | *Corn.♉ Bor.&* | α | | 1070 | 95 | 44 | 43 | 18 |
| | 11 30 | *Aldebaran* & | γ | | 925 | 44 | 38 | 38 | 40 |
| | | | β | | 918 | 20 | 38 | 20 | 32 |
| | | | α | | 850 | 99 | 35 | 32 | 26 |

| ANNO CHRISTI MDCLXXVII. Menfe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE ARIETIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Jan. 24 | 6 23 | *Aldebaran* & ——— γ | | 925 44 | 38 38 40 | |
| | | ——— repetit. | | 925 47 | 38 38 45 | |
| | 34 | ——— ι | | 905 79 | 37 49 29 | |
| | | hanc præcedens ——— | | 959 87 | 40 04 55 | |
| | 47 | ——— α | | 850 94 | 35 32 19 | |
| | | ——— κ | | 852 72 | 35 36 40 | |
| | | ——— η | | 816 92 | 34 07 13 | |
| | 7 11 | ——— θ | | 786 16 | 32 50 22 | |
| | | hujus comes ——— | | 780 44 | 32 36 01 | |
| | | ——— ν | | 673 24 | 28 07 27 | |
| | 31 | ——— μ | | 650 00 | 27 09 12 | |
| | 40 | ——— ε | | 558 88 | 23 20 43 | |
| | | quæ infra hanc ——— | | 563 68 | 23 32 45 | |
| | 53 | ——— δ | | 485 61 | 20 16 37 | |
| | | ——— ζ | | 471 39 | 19 40 49 | |
| | | Bor. in extremitate Caudæ ——— | | 437 32 | 18 15 28 | D |
| | | Lucidior in eadem ——— | | 426 98 | 17 49 34 | T |
| ☿ Feb. 14 | 7 00 | *Aldebaran* & quæ fupra π ——— Habet hæc duas vicinas fatis lucidas, fic, ——— | | 614 21 | 25 39 21 | |
| | | ——— ρ | | 569 86 | 23 48 15 | |
| | | Huic funt tres aliæ circumpofitæ, fic ——— | | | | |
| | 25 | ——— σ | | 601 95 | 25 08 37 | |
| | | ——— ο | | 641 09 | 26 46 45 | |
| | 48 | quæ fub Cauda Arietis in recta fere cum δ & ζ ——— | | 506 61 | 21 09 27 | |
| | | ——— repet. | | 506 54 | 21 09 16 | |
| ♂ Dec. 4 | 8 36 | *Aldebaran* & præcedens duarum fupra μ in Capite Ceti ——— | | 697 76 | 29 08 47 | |
| | 43 | hanc fequens in rectâ cum μ Ceti, & ο Arietis ——— | | 649 84 | 27 08 48 | |
| | 50 | ——— ο | | 641 16 | 26 46 55 | |
| | 52 | hanc præcedens ——— | | 708 54 | 29 35 49 | |
| | 58 | ——— σ | | 601 97 | 25 08 40 | |
| | 9 04 | ——— π | | 610 22 | 25 29 21 | |
| | 10 | media trium ad ——— ρ | | 569 85 | 23 48 13 | |
| ♂ 11 | 9 14 | *Medufæ Alg.* & præced. duarum fupra μ Ceti | | 702 07 | 29 19 37 | |
| | 26 | harum feq. & lucidior ——— | | 692 95 | 28 56 51 | |
| | | Diftantiam *Aldebaræ* ab *Algol* vide fub *Perfeo*. | | | | |
| ♂ 18 | 9 52 | *Aldebaran* & ——— ο | | 641 10 | 26 46 46 | |
| | 57 | ——— σ | | 602 02 | 25 08 48 | |
| | 10 04½ | ——— π | | 610 25 | 25 29 25 | |
| | 09 | præcedens π ad Boream. ——— | | 614 25 | 25 39 27 | |
| MDCLXXIX. | | | | | | |
| ☽ Sep. 1, vel 2 mane | 14 00 | *Cornu* ♉ *Sup.* & è quinq; in extremitate Caudæ præcedens & Borealis ——— | 29 13 40 | 699 74 | 29 13 46 | D |
| | 06 | media clarior Auftralis ——— | 29 02 25 | 695 27 | 29 02 34 | T |
| | 10 | hanc feq. magis ad Auftrum | 28 39 20 | 686 05 | 28 39 33 | c |
| | | quæ præcedit hanc ad Bor. | 28 50 35 | 690 43 | 28 50 30 | d |
| | | Auftraliffima in antecedentia | 29 32 45 | 707 30 | 29 32 44 | e |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *ARIETIS.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Sept. 1 | 14 24 | *Aldebaran* & —— μ | 27 08 45 | 649 82 | 27 08 45 |
| | 29 | —— ν | 28 06 25 | 672 93 | 28 06 40 |
| | | —— rep. | 28 06 30 | 672 98 | 28 06 47 |
| | | —— θ | 32 50 10 | 785 97 | 32 49 54 |
| | 41 | —— η | 34 06 50 | 816 68 | 34 06 40 |
| | 47 | —— κ | 35 36 15 | 852 46 | 35 36 07 |
| | 51 | —— λ | 37 36 50 | 901 00 | 37 37 33 |
| | 56½ | —— α | 35 31 50 | 850 71 | 35 31 45 |
| | | —— β | 38 20 20 | 918 04 | 38 20 10 |
| | 15 05 | —— γ | 38 38 10 | 925 23 | 38 38 10 |
| | | —— rep. | 38 38 10 | 925 23 | 38 38 10 |
| | | quæ in recta cum μ Ceti & ο γ | 27 08 25 | 649 94 | 27 09 03 |
| | 22 | hanc antecedens —— | 29 08 40 | 697 86 | 29 09 05 |
| | | —— ο | 26 46 05 | 640 93 | 26 46 21 |
| | 28 | —— σ | 25 08 05 | 601 87 | 25 08 25 |
| | | —— π | 25 28 35 | 609 99 | 25 28 46 |
| | 38 | —— ρ | 23 47 25 | 569 70 | 23 47 51 |
| | | —— ε | 23 20 20 | 558 66 | 23 20 15 |
| | | quæ infrà ε 40′ circiter —— | 23 32 05 | 563 49 | 23 32 13 |
| | 49 | —— δ | 20 16 05 | 485 42 | 20 16 09 |
| | 52 | —— ζ | 19 40 30 | 471 25 | 19 40 28 |
| | 16 02 | *Cornu ♉ Sup.* & —— σ | 38 10 05 | 914 09 | 38 10 15 |
| | 30 | *Andromedæ Pes Lucidus, Alamech,* & —— σ | 29 06 20 | 696 77 | 29 06 21 |
| ☽ Nov. 17 | 11 01 | *Aldebaran* & —— γ | 38 38 35 | 925 39 | 38 38 35 |
| | 07 | —— ι | 37 49 10 | 905 65 | 37 49 08 |
| | 11 | hanc præcedens Exigua —— | 40 24 45 | 967 83 | 40 24 45 |
| | 26 | —— β | 38 20 55 | 918 32 | 38 20 55 |
| | | —— rep. | 38 20 45 | 918 26 | 38 20 45 |
| | 31 | —— iterùm. | 38 20 45 | 918 26 | 38 20 45 |
| | 34 | —— α | 35 32 05 | 850 81 | 35 32 05 |
| | 37 | —— rep. | 35 32 05 | 850 81 | 35 32 05 |
| | 38 | —— iterùm. | 35 32 10 | 850 85 | 35 32 10 |
| ☉ Dec. 12 | 5 55 | *Os Pegasi* & Secunda Arietis —— β | 61 00 25 | 1461 47 | 61 00 40 |
| | 6 00 | —— rep. | 61 00 25 | 1461 48 | 61 00 42 |
| | 04 | Prima Arietis —— γ | 60 45 45 | 1455 50 | 60 45 52 |
| | | —— rep. | 60 45 40 | 1455 48 | 60 45 49 |
| MDCLXXX. | | | | | |
| ♄ Feb. 7 | 6 09 | *Aldebaran* & —— α | 35 32 00 | 850 93 | 35 32 18 |
| | 15 | —— rep. | 35 32 00 | 850 98 | 35 32 25 |
| | 20 | —— γ | 38 38 40 | 925 60 | 38 39 05 |
| | 22 | —— rep. | 38 38 40 | 925 60 | 38 39 05 |
| | 27 | —— β | 38 20 50 | 918 45 | 38 21 10 |
| | | —— rep. | 38 20 55 | 918 40 | 38 21 03 |
| | 33 | *Cornu ♉ Sup.* & —— α | 44 42 40 | 1071 06 | 44 43 30 |
| | 39 | —— rep. | 44 42 45 | 1071 09 | 44 43 35 |
| ♂ Feb. 10 | 6 57 | *Andromedæ, in Cingulo lucida Mirach,* & quæ præcedit primam Arietis | 16 55 50 | 405 50 | 16 55 44 |
| | 7 01 | —— ι | 20 42 30 | 496 00 | 20 42 51 |
| | 06 | —— γ | 18 58 05 | 454 38 | 18 58 10 |
| | 10 | —— β | 17 47 20 | 426 09 | 17 47 18 |
| | 15 | —— α | 17 23 10 | 416 60 | 17 23 32 |
| | | *Andromedæ Pes lucidus Alamech* & —— α | 18 52 20 | 451 94 | 18 52 04 |
| | 33 | —— κ | 19 41 10 | 471 55 | 19 41 19 |
| | 37 | —— η | 21 11 25 | 507 41 | 21 11 29 |

| ANNO CHRISTI MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *ARIETIS.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Feb. 10 | 7 41 | *Andromedæ Pes lucidus Alamech* & ——— θ | 22 37 30 | 541 66 | 22 37 30 |
| | 47 | ——— ν | 21 38 00 | 518 60 | 21 39 35 |
| | 52 | ——— μ | 23 44 30 | 568 42 | 23 44 36 |
| | 56 | ——— π | 26 41 05 | 638 83 | 26 41 07 |
| | 59 | quæ ſupra π ——— | 25 51 40 | 618 82 | 25 50 55 |
| | 8 03 | Auſtralis duarum ad ——— ρ | 26 43 40 | 639 90 | 26 43 50 |
| | 05 | earum Borealis & minor——— | 26 24 40 | 632 41 | 26 25 02 |
| | 11 | ——— ο | 28 23 40 | 679 76 | 28 23 45 |
| | 29 | ——— σ | 29 06 40 | 696 90 | 29 06 39 |
| | 32 | ——— ε | 23 59 10 | 574 23 | 23 59 09 |
| | 36 | quæ infra ε 40′ circit. ——— | 24 28 15 | 585 86 | 24 28 16 |
| | 41 | ——— δ | 26 44 25 | 640 26 | 26 44 43 |
| | 43 | ——— ζ | 25 58 50 | 622 02 | 25 58 57 |
| | 48 | è quinq; illis in extremitate Caudæ præced.& Auſtraliſſima | 27 22 45 | 655 47 | 27 22 54 |
| | 50 | media clarior Auſtralium——— | 27 13 10 | 651 66 | 27 13 21 |
| | 54 | hanc ſequens magis ad Auſtrum | 27 10 15 | 650 46 | 27 10 21 |
| | 57 | quæ præcedit hanc ad Bor. | 27 05 30 | 648 62 | 27 05 44 |
| | 9 00 | Auſtraliſſima in antecedentia. | 26 40 35 | 638 72 | 26 40 51 |
| | 18 | *Aldebaran* & Alamech ——— | 41 24 30 | 991 93 | 41 25 20 |
| | 27 | *Sup.Corn.* ♉ & Alamech ——— | 42 44 40 | 1023 80 | 42 45 09 |
| ☿ 12 | 7 25 | *Alamech* & ——— λ | 18 45 05 | 449 01 | 18 44 44 |
| | 40 | *Sup.Corn.* ♉ & informium in △ minore ſupra Ariet. in baſi, ſequens, a | 34 23 40 | 823 64 | 34 24 00 |
| | 43 | ſupra præcedentem in baſi——— c | 35 43 30 | 855 59 | 35 43 54 |
| | 48 | in baſi præcedens ——— d | 36 27 30 | 873 18 | 36 27 54 |
| | 51 | in Apice ——— | 34 30 10 | 826 21 | 34 30 25 |
| ♄ 14 | 7 46 | *Lucida Mandib. Ceti* & dicti △[i] in baſi ſeq. | 17 45 05 | 425 21 | 17 45 06 |
| | 8 33 | in baſi præcedens ——— | 17 02 05 | 407 96 | 17 01 54 |
| | 53 | ſupra præcedentem in baſi——— | 16 41 55 | 399 96 | 16 41 51 |
| | 59 | in Apice ——— | 15 47 55 | 378 48 | 15 48 04 |
| ♂ 17 | 6 21 | *Aldebaran* & ——— γ | 38 38 20 | 925 51 | 38 38 48 |
| | 24 | ——— rep. | 38 38 30 | 925 58 | 38 38 58 |
| | 26 | ——— β | 38 20 35 | 918 36 | 38 20 54 |
| | 27 | ——— rep. | 38 20 40 | 918 38 | 38 20 57 |
| | 30 | ——— α | 35 32 05 | 851 02 | 35 32 28 |
| | 32 | ——— rep. | 35 32 10 | 851 08 | 35 32 37 |
| ☽ Nov. 8 | 8 55 | *Aldebaran* & Andromedæ Mirach ——— | 49 26 15 | 1183 79 | 49 26 06 |
| | 9 05 | Meduſæ Caput, Algol ——— | 30 53 10 | 739 51 | 30 53 33 |
| ♄ 13 | 11 35 | *Aldebaran* & Lucida Arietis ——— α | 35 32 05 | 850 80 | 35 31 55 |
| | 37 | ——— rep. | 35 32 05 | 850 82 | 35 31 58 |
| ♄ 27 | 5 50 | *Mark.Peg.* & Arietis Lucida ——— α | 43 37 35 | 1044 56 | 43 37 10 |
| | | ——— rep. | 43 37 30 | 1044 54 | 43 37 07 |
| | 59 | Arietis prima ——— γ | 40 24 30 | 967 50 | 40 24 03 |
| | | ——— rep. | 40 24 30 | 967 52 | 40 24 06 |
| | 10 22 | *Aldebaran* & Lucida Arietis ——— | 35 32 00 | 850 77 | 35 31 51 |
| | | ——— rep. | 35 31 50 | 850 72 | 35 31 44 |
| | | ——— iterum. | 35 32 00 | 850 75 | 35 31 48 |
| ♃ Dec. 9 | 6 08½ | *Os Pegaſi* & Secunda Arietis ——— β | 61 00 50 | 1461 68 | 61 01 12 |
| | 15 | *Extrema Alæ Pegaſi* & Lucida Arietis——— α | 28 03 00 | 671 83 | 28 03 54 |
| | 19 | *Andromedæ Caput* & Lucida Arietis——— α | 27 07 40 | 649 53 | 27 08 00 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Arietis.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Jan. 5 | 6 15 | *Extr. Alæ Pegasi* & Lucida Arietis ——— α | 28 02 45 | 671 78 | 28 03 46 |
| ☽ 24 | 5 53 | *Palilicium* ——— & Lucida Arietis ——— α | 35 32 10 | 850 85 | 35 32 03 |
| | 55 | ——— rep. | 35 32 15 | 850 89 | 35 32 09 |
| MDCLXXXII. | | | | | |
| ♄ Jan. 28 | 8 56 | *Polaris* ——— & { Lucidissima & Orient. in Basi △ⁱ ad Dorsum ♈ᵗⁱˢ | 61 59 30 | 1485 13 | 61 59 50 |
| ♃ Sept. 21 | 10 40 | *Os Pegasi* ——— & Arietis ——— β | 61 00 35 | 1461 42 | 61 00 33 |

| Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Tauri.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Nov. 6 | 11 circ. | *Pollux* ——— & Aldebaran ——— α | | 1079 01 | 45 03 25 |
| | | *Castor* ——— & eadem ——— α | | 1034 52 | 43 12 01 |
| 8 *vel* ♃ 9 *mane.* | 17 40 | *Procyon* ——— & ——— α | | 1109 18 | 46 19 06 |
| | 51 | *Lucid. Pes Geminorum* & Aldebaran ——— α | | 698 02 | 29 09 28 |
| ♃ 16 | 6 46 | *Lucid. Mandib. Ceti* & ——— α | | 625 28 | 26 07 07 |
| | | * { *ima filorum parte* ——— | | 625 32 | 26 07 13 |
| | | { *suprema* ——— | | 625 20 | 26 06 55 |
| | | *Ergo bene se fila habent.* | | | |
| ♃ 23 | 10 42 | *Andromedæ Caput* & ——— α | | 1488 95 | 62 09 20 |
| | 51 | *Mirach, in Cingulo Andromedæ* & ——— α | | 1184 19 | 49 27 09 |
| | | *Clara in Lino boreo Piscium, n,* & ——— α | | 1059 77 | 44 15 16 |
| ☽ Dec. 18 | 7 56 | *Capella* ——— & ——— ζ | | 604 73 | 25 15 34 |
| | | ——— rep. | | 604 75 | 25 15 37 |
| MDCLXXVII. | | | | | |
| ☿ Feb. 14 | 8 00 | *Luc. Pes Geminorum* & Media Luc. Plejadum *n* | | 969 96 | 40 30 13 |
| | | Occidentalis Lucidior — *b* | | 984 24 | 41 06 03 |
| | 23 | In Cuspide ad Ort. Luc. - *f* | | 960 80 | 40 07 16 |
| | | exigua 1 gr. circit. sup. Pl. | | 957 10 | 39 57 57 |
| | | ——— * * A | | 873 26 | 36 28 09 |
| | 50 | ——— ω | | 801 81 | 33 29 28 |
| | | præced. 2ᵃʳ supra ω ad Bor. | | 796 75 | 33 16 48 |
| | | sequens paululum Boreal. | | 790 17 | 33 00 18 |
| | | *Fixa Parvula bis Australior simul cum hac filum transit* — } *p* * * * s | | | |
| ♂ Dec. 11 | 9 32 | *Castor* ——— & Sup. 2ᵃʳ inter Cornua ♉ 1ª | | 676 33 | 28 15 10 |
| | 36½ | harum inferior ——— 2ª | | 655 33 | 27 22 33 |
| | | *Habet hæc Exiguam ad Boream filum paulo serius transeuntem parvulamq; sequentem.* } * * * | | | |
| | 42 | Duarum sequent. superior 3ª | | 617 25 | 25 46 58 |
| | | *Hæc habet nonnullas satis, lucidas, circumpositas sic* } * * * 3 * | | | |
| | 46½ | harum inferior ——— 4ª | | 582 35 | 24 19 30 |
| | 51 | duarum supra *Propoda*, sup. 5ª | | 544 82 | 22 45 19 |
| | 54 | harum inferior ——— 6ª | | 524 96 | 21 55 27 |

| ANNO CHRISTI MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE TAURI. | Diſtantiæ per lineas diagonales. ° ' " | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ' " |
|---|---|---|---|---|---|
| ♂ Dec. 11 | 10 05 | *Seq. Hum. Orionis* & ——— 1ª | | 450 02 | 18 47 19 |
| | 10 | ——— 2ª | | 414 22 | 17 17 36 |
| | 16 | ——— 4ª | | 412 58 | 17 13 28 |
| | 22 | ——— 3ª | | 451 52 | 18 51 04 |
| | 31 | ——— 5ª | | 483 99 | 20 12 33 |
| | 42 | *Lucid. Pes Geminorum* & ——— 5ª | | 364 06 | 15 12 00 |
| | 47 | ——— 6ª | | 318 42 | 13 17 49 |
| | 54 | *Caſtor* ——— & Pes Lucidus Geminorum | | 483 35 | 20 10 57 |
| | 59 | ſequens Humerus Orionis | | 807 00 | 33 42 28 |
| ♀ Dec. 14 | 9 31 | *Caſtor* ——— & præcedens trium ſub Auſtrali Cornu ♉ ——— } 7ª | | 785 24 | 32 48 04 |
| | | *Huic duæ ſunt ab Auſtro vicinæ quarum ipſam altera præcedit altera ſequitur cum nonnullis exiguis adjacentibus.* | | | |
| | 41 | *Caſtor* ——— & quæ hanc ſequitur ——— 8ª | | 764 16 | 31 55 22 |
| | 45 | hanc ſequ. magis ad Bor. 9ª | | 731 84 | 30 34 10 |
| | 52 | in Baſi △i ſupra Verticem auſtralior ——— } 10ª | | 846 26 | 35 20 38 |
| | 56 | in Baſi △i ejuſdem Bor. 11ª | | 835 06 | 34 52 42 |
| | 59 | in Apice ejuſdem ——— 12ª | | 791 16 | 33 02 46 |
| | 10 03 | ——— *i* | | 842 20 | 35 10 25 |
| | | *Huic Vicina pavula ſequens & ab Auſtro Lucidior.* | | | |
| | 10½ | hanc ſequens obſcurior 13ª | | 816 76 | 34 06 49 |
| | 14 | ——— *l* | | 830 69 | 34 41 43 |
| | 17 | ——— *m* | | 853 72 | 35 39 18 |
| ♄ 15 | 9 48 | *Seq. Hum. Orionis* & ——— 7ª | | 299 26 | 12 29 52 |
| | 54 | ——— 8ª | | 301 14 | 12 34 34 |
| | 10 01 | ——— 9ª | | 299 54 | 12 30 34 |
| ☽ 17 | 10 17 | *Pr. Hum. Orionis* & in Baſi △i ſup. vert. Auſt. 10ª | | 449 91 | 18 47 03 |
| | 23 | in ejuſdem Baſi Boreal. 11ª | | 473 96 | 19 47 16 |
| | 31 | has ſequens in Apice — 12ª | | 440 11 | 18 22 28 |
| | 35 | ——— 1ª | | 386 90 | 16 09 10 |
| | 40 | hanc ſequens obſcurior 13ª | | 381 26 | 15 55 07 |
| | 42 | ——— *l* | | 351 74 | 14 41 10 |
| | 47 | ——— *m* | | 312 46 | 13 02 52 |
| | 55 | *Caſtor* ——— & Humerus Orionis præcedens | | 947 24 | 39 33 13 |
| | 59 | & ejuſdem Humerus ſequens. | | 806 89 | 33 42 07 |
| ♂ 18 | 10 14½ | *Lucid. Pes Geminorum* & ——— o | | 1137 35 | 47 29 45 |
| | 18½ | ——— ξ | | 1120 10 | 46 46 28 |
| | 22½ | ——— *t* | | 1090 86 | 45 33 07 |
| | 25 | ——— *ſ* | | 1093 05 | 45 38 36 |
| | 29½ | ——— *f* | | 1082 96 | 45 13 19 |
| | 33 | ——— *e* | | 991 55 | 41 24 21 |
| | | e *habet plures circumcirca fixas Minutulas* ·:·e | | | |
| | 37 | ——— λ | | 913 66 | 38 09 10 |
| | 40½ | quæ in recta cum λ & prima Hyadum ——— } | | 862 03 | 36 00 01 |
| | 45 | præcedens 4 ſub 1 Hyad. *d* | | 796 95 | 33 17 18 |
| | | *Tres reliquæ Teleſcopicæ ſunt.* | | | |
| | 10 50 | ——— γ | | 792 84 | 33 07 00 |
| | 53 | quæ ſub γ ——— | | 789 74 | 32 59 14 |

| Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *TAURI.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Dec. 18 | 10 55½ | *Luc. Pes Geminorum* & Boreal. contiguar. ad θ | | 741 77 | 30 59 14 |
| | 58 | Auſtralior & Lucidior ad θ | | 741 41 | 30 58 20 |
| | 11 00 | Parvula has præcedens | | 755 37 | 31 33 20 |
| | 02½ | eaſdem quæ ſequitur | | 729 82 | 30 29 07 |
| MDCLXXVIII. | | | | | |
| ♂ Jan. 22 | 7 12½ | *Hum. Seq. Orionis* & ζ | 14 22 35 | 344 32 | 14 22 37 |
| | 23½ | *Caſtor* & ζ | 28 10 40 | 674 62 | 28 10 50 |
| ☿ Feb. 13 | 7 28 | *Luc. Pes Geminorum* & Aldebaran α | 29 10 05 | 698 49 | 29 10 37 |
| ♃ 14 | 8 03 | *Luc. Pes Geminorum* & præced. contiguar. ad δ | 32 13 05 | 771 22 | 32 13 06 |
| | 10 | earum ſequens | 31 56 15 | 764 62 | 31 56 32 |
| | 14 | paululum ſupra has ad Bor. | 31 34 45 | 756 23 | 31 35 39 |
| | 18 | ε | 30 48 55 | 737 88 | 30 49 19 |
| | 27 | ω | 33 29 30 | 801 86 | 33 29 21 |
| | 33 | præced. 2arum ſup. ω ad Bor. | 33 16 40 | 796 67 | 33 16 36 |
| | 36 | ſequens paululum Borealior | 33 00 15 | 790 20 | 33 00 22 |
| | 42 | A * A | 36 28 10 | 873 32 | 36 28 18 |
| | 48 | præced. & Bor. ad * κ | 31 42 10 | 759 21 | 31 42 57 |
| | 53 | υ * υ | 31 32 40 | 755 23 | 31 33 00 |
| | 9 00 | τ | 27 54 30 | 668 20 | 27 54 46 |
| | | *Hæc babet Exiguam propinquam & aliam 20′ diſt.* | | | |
| | 14 | *Capella* & ε | 28 37 00 | 685 24 | 28 37 30 |
| MDCLXXIX. | | | | | |
| ☽ Feb. 17 | 8 00 | *Luc. Pes Geminorum* & λ | 38 09 40 | 914 00 | 38 10 00 |
| | 09 | π | 31 35 15 | 756 34 | 31 35 40 |
| | | *Hæc babet Aſſeclam 25′ circiter ab ea diſt. ad Occaſ. in circulo magno per utraſque tranſeunte.* | | | |
| | 26 | ρ | 29 50 35 | 714 64 | 29 51 04 |
| | | Auſtralior contiguar. ad σ | 28 27 45 | 681 55 | 28 28 13 |
| | 34 | Borealior ad σ | 28 25 45 | 680 75 | 28 26 13 |
| | 42 | b | 31 18 45 | 749 93 | 31 19 42 |
| | 47 | c | 29 10 45 | 698 83 | 29 11 30 |
| | 51 | d | 30 18 35 | 725 90 | 30 19 18 |
| ♀ 21 | 6 57 | *Luc. Arietis* & α | 35 32 10 | 851 00 | 35 32 25 |
| | 7 01 | rep. | 35 32 10 | 851 01 | 35 32 27 |
| | 36 | *Luc. Pes Geminorum* & α | 29 10 30 | 698 65 | 29 11 03 |
| | | rep. | | 698 56 | 29 10 50 |
| | 48 | e | 41 24 20 | 991 40 | 41 24 00 |
| | 52 | λ | 38 09 20 | 913 78 | 38 09 30 |
| | 56 | μ | 35 25 30 | 848 29 | 35 25 40 |
| | 8 04 | quæ juxta præcedit Boreal. | 35 42 20 | 855 04 | 35 42 33 |
| | 10 | clarior ad ν | 39 12 35 | 939 15 | 39 12 35 |
| | 16 | Auſtral. ad ν 30′ circa ab illa | 39 15 20 | 940 19 | 39 15 11 |
| ♃ 27 | 7 11 | *Luc. Pes Geminorum* & b | 31 18 20 | 749 85 | 31 19 30 |
| | | hac borealior in conſequent. | 30 45 45 | 736 80 | 30 46 34 |
| | 19 | d | 30 18 15 | 725 90 | 30 19 18 |
| | 25 | μ | 35 25 10 | 848 38 | 35 25 51 |
| | | τ | 33 17 25 | 797 23 | 33 18 00 |
| | 54 | *Luc. Lat. Perſei* & α | 36 20 05 | 870 00 | 36 20 00 |
| | | Lucidior & Auſt. contig. ad θ | 36 24 05 | 871 56 | 36 23 52 |
| | | Borealior & minor ad θ | 36 18 30 | 869 38 | 36 18 24 |
| | | parvula has præcedens | 36 28 20 | 873 33 | 36 28 16 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *TAURI.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♃ Feb. 27 | 8 15½ | *Luc.Lat.Persei* & quæ sequitur easdem —— | 36 13 50 | 867 59 | 36 13 55 |
| | | —— γ | 36 02 00 | 862 74 | 36 01 48 |
| | | quæ sub γ —— | 36 35 35 | 876 30 | 36 35 42 |
| | | præcedens contiguarum ad δ | 34 24 00 | 823 68 | 34 24 09 |
| | 40 | earum sequens —— | 34 34 30 | 827 77 | 34 34 18 |
| | 44 | quæ paulul. sup. has ad Bor. | 34 12 45 | 819 07 | 34 12 35 |
| | 50 | —— ε | 33 15 35 | 796 20 | 33 15 22 |
| ♂ Mar. 3 | 8 18 | *Luc. Pes Andromedæ* & —— ο | 37 44 40 | 903 80 | 37 44 34 |
| | | —— ξ | 37 21 10 | 894 39 | 37 21 00 |
| ☿ Oct. 19 | 14 49 | *Seq. Hum. Aurigæ* & —— ε | 31 56 15 | 764 64 | 31 56 27 |
| | | —— rep. | 31 56 15 | 764 67 | 31 56 31 |
| | 55 | —— α | 33 24 30 | 799 86 | 33 24 31 |
| | 15 15 | *Castor Geminorum* & —— α | 43 12 10 | 1034 60 | 43 12 13 |
| | 18 | —— ε | 43 30 15 | 1041 71 | 43 30 02 |
| | 21 | *Pollux.* —— & —— α | 45 03 35 | 1079 22 | 45 03 57 |
| | | —— rep. | | 1079 24 | 45 04 00 |
| | 26 | —— ε | 45 40 05 | 1093 83 | 45 40 34 |
| | | —— rep. | 45 40 05 | 1093 85 | 45 40 37 |
| ♄ Dec. 20 | 8 00 | *Lucida Arietis* & Lucida Plejadum —— η | 22 57 00 | 549 43 | 22 57 00 |
| | 9 03 | Cornu Superius —— β | 44 42 50 | 1071 10 | 44 43 37 |
| | 10½ | Cornu Inferius —— ζ | 48 28 55 | 1161 11 | 48 29 15 |
| | 11 00 | *Pollux* —— & lucida Plejadum —— η | 53 05 25 | 1271 41 | 53 05 36 |
| | | occidentalis lucidior —— b | 53 39 00 | 1284 92 | 53 39 22 |
| | | in Cusp. ad Ort. Lucid. f | 52 44 00 | 1263 04 | 52 44 39 |
| | | inter Occid.Luc. & mediam ad Aust. —— d | 53 23 25 | 1278 59 | 53 23 33 |
| | | Borealissima —— c | 53 28 15 | 1280 58 | 53 28 31 |
| | | hanc sequens ad Aust. —— e | 53 22 15 | 1278 15 | 53 22 27 |
| MDCLXXX. | | | | | |
| ♀ Jan. 9 | 8 13½ | *Luc. Pes Geminorum* & —— ο | 47 29 45 | 1137 50 | 47 30 06 |
| | 20 | —— ξ | 46 46 30 | 1120 28 | 46 46 57 |
| | 25 | —— ʃ | 45 38 20 | 1093 17 | 45 38 55 |
| | 29 | —— f | 45 13 30 | 1083 26 | 45 14 04 |
| ♄ Feb. 7 | 6 36 | *Lucida Arietis* & —— β | 44 42 40 | 1071 04 | 44 43 28 |
| | 39 | —— rep. | 44 42 45 | 1071 07 | 44 43 33 |
| | 47 | —— ζ | 48 28 50 | 1161 10 | 48 29 14 |
| | 7 30 | *Pollux* — & 2rum ad η Borealis seq. & lucid. | 33 32 20 | 803 04 | 33 32 28 |
| | 33 | duarum ad η præcedens —— | 33 47 15 | 809 00 | 33 47 22 |
| | 37 | —— ο | 31 44 15 | 759 94 | 31 44 42 |
| | 40 | —— ζ | 29 48 10 | 713 42 | 29 48 01 |
| | 46 | —— χ | 45 01 35 | 1078 49 | 45 02 07 |
| | 51 | —— φ | 45 05 20 | 1079 90 | 45 05 39 |
| | 55 | —— þ | 47 21 35 | 1134 27 | 47 22 00 |
| | 59 | —— b | 47 59 40 | 1149 47 | 48 00 05 |
| | 8 03 | —— ♆ | 47 34 35 | 1139 45 | 47 34 58 |
| ☿ 11 | 6 44 | *Luc. Pes. Geminorum* & —— t | 45 33 20 | 1091 18 | 45 33 57 |
| | 48 | —— u | 43 20 45 | 1037 93 | 43 20 33 |
| | 51 | —— r | 33 17 50 | 797 23 | 33 17 57 |
| | 7 06 | *Andromedæ Pes Lucidus Alamech* & —— β | 42 44 10 | 1023 60 | 42 44 39 |
| | 32 | —— t | 38 16 05 | 916 38 | 38 15 57 |
| | 36 | —— s | 36 16 50 | 868 65 | 36 16 34 |
| | 40 | —— ʃ | 34 55 15 | 836 10 | 34 55 09 |
| | 45 | —— u | 42 42 30 | 1022 78 | 42 42 36 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *TAURI.* | Distantia per lineas diagonales. ° ′ ″ | Distantiæ per Cochlea Revolutiones & circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Feb. 11 | 7 49 | *Androm. Pes Luc. Alam.* & duarum ad ν borealis | 44 54 25 | 1075 74 | 44 55 13 |
| | 54 | lucidissima & sequens ad μ | 44 10 15 | 1057 98 | 44 10 47 |
| | 58 | ——— ι | 44 55 35 | 1076 05 | 44 56 00 |
| | 8 02 | ——— e | 38 36 05 | 924 33 | 38 35 51 |
| | 39 | ——— λ | 39 07 50 | 937 10 | 39 07 50 |
| | | *Lucidum Lat. Persei* & ——— d | 42 21 30 | 1014 40 | 42 21 36 |
| | | lucidior & antecedens ad c | 40 18 50 | 965 30 | 40 18 33 |
| | 56 | inferior duarum ad ——— b | 39 06 50 | 936 63 | 39 06 37 |
| | | ——— π | 37 22 15 | 894 77 | 37 21 54 |
| | | ——— ρ | 37 46 05 | 904 27 | 37 45 40 |
| | | lucidior & borealior ad — σ | 37 11 05 | 890 31 | 37 10 45 |
| | 9 23 | australior & minor ad — σ | 37 17 00 | 892 64 | 37 16 35 |
| | | ——— A | 28 53 40 | 691 72 | 28 53 40 |
| | 32 | ——— ω | 31 06 40 | 744 78 | 31 06 46 |
| | | præced. duar. sup. ω ad bor. | 30 13 30 | 723 71 | 30 13 51 |
| | 40 | sequens paululum borealior | 30 07 55 | 721 44 | 30 08 07 |
| | 43 | ——— υ | 29 39 15 | 709 87 | 29 39 07 |
| | 49 | ——— κ | 30 03 45 | 719 79 | 30 03 58 |
| | | ——— τ | 30 56 20 | 740 61 | 30 56 20 |
| ♄ 14 | 9 11 | *Luc. Lat. Persei* & Plejadum borealissima c | 25 42 45 | 615 64 | 25 42 57 |
| | 14 | hanc sequens ad austr. — e | 25 50 00 | 618 56 | 25 50 16 |
| | 21 | occidentalis lucidior ——— b | 26 03 30 | 623 80 | 26 03 24 |
| | 24 | inter hanc & luc. ad aust. d | 26 15 50 | 628 72 | 26 15 45 |
| | 27 | media & lucida ——— n | 26 08 55 | 625 97 | 26 08 51 |
| | | ——— rep. | 26 09 00 | 625 99 | 26 08 54 |
| | 34 | in Cusp. ad Ort. bor. min. b | 26 10 30 | 626 63 | 26 10 30 |
| | 36 | in Cusp. ad Ort. Luc. & aust. f | 26 15 30 | 628 59 | 26 15 25 |
| ♂ 17 | 7 03 | *Calx Castoris* & Oculus boreus ——— ε | 26 52 45 | 643 81 | 26 53 37 |
| | 8 49 | *Luc. Lat. Persei* & Plejadum ——— c | 25 42 45 | 615 64 | 25 42 57 |
| | 51 | hanc seq. ad austrum ——— e | 25 50 00 | 618 56 | 25 50 16 |
| | 54 | occidentalis Lucidior ——— b | 26 03 05 | 623 71 | 26 03 10 |
| | 56 | media & Lucida ——— n | 26 08 45 | 625 94 | 26 08 46 |
| | 58 | inter has ad austrum ——— d | 26 15 55 | 628 79 | 26 15 55 |
| | 9 01 | in Cusp. ad Ort. Lucid. — f | 26 15 30 | 628 63 | 26 15 31 |
| | 04 | in Cusp. boreal. & minor b | 26 10 35 | 626 64 | 26 10 31 |
| | 08 | ——— Pollux | 53 21 25 | 1277 77 | 53 21 30 |
| | 10 | ——— rep. | 53 21 20 | 1277 76 | 53 21 28 |
| ☿ 18 | 7 49 | *Luc. Lat. Persei* & ——— ψ | 22 23 05 | 535 92 | 22 23 05 |
| | 55 | ——— b | 23 40 55 | 567 05 | 23 41 10 |
| | 57 | ——— p | 25 02 20 | 599 40 | 25 02 14 |
| | 8 01 | ——— φ | 24 56 10 | 597 14 | 24 56 33 |
| | 05 | ——— χ | 26 43 05 | 639 71 | 26 43 20 |
| | 13 | *Capella* ——— & ——— ζ | 25 15 20 | 604 67 | 25 15 25 |
| | 18 | ——— o | 24 12 10 | 579 46 | 24 12 16 |
| | 22 | lucidior ad ——— n | 23 56 30 | 573 07 | 23 56 15 |
| | 35 | *Orionis. Hum. præc.* & ——— ι | 16 09 10 | 386 91 | 16 09 10 |
| | 37 | Telesc. præced. ad Austrum | 15 45 05 | 377 40 | 15 45 22 |
| | 41 | Parvula quæ sequitur ι — | 15 54 25 | 381 03 | 15 54 27 |
| | 44 | ——— l | 14 41 10 | 351 73 | 14 41 09 |
| | 46 | ——— m | 13 02 50 | 312 46 | 13 02 53 |
| | 49 | quæ in Apice △ supra Vert. | 18 22 35 | 440 11 | 18 22 27 |
| | 55 | in ejusdem Basi borealior — | 19 47 05 | 473 95 | 19 47 21 |
| | 9 01 | in Basi Austrina ——— | 18 47 15 | 449 95 | 18 47 06 |
| ♀ 20 | 7 58 | *Hum. Orionis seq.* & ——— l | 17 20 10 | 415 36 | 17 20 25 |
| | 8 00 | *Hum. Orionis præc.* & ——— eadem — l | 14 41 10 | 351 72 | 14 41 07 |

| Anno Christi MDCLXXX. | | | In Constellatione *Tauri.* | *Distantiæ per lineas diagonales.* | | | *Distantiæ per Cochleæ Revolutiones & circuli partes Respondentes.* | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *Mense, Die. Styl. Vet.* | *Temp. App.* H. | M. | | ° | ′ | ″ | *Revol.* | *Cent.* | ° | ′ | ″ |
| ☿ Feb. 20 | 8 | 03 | *Hum. Orionis Præc.* & Telescop. Clara infra *l* | 14 | 16 | 50 | 341 | 96 | 14 | 16 | 42 |
| | | 13 | *Hum. seq. Orionis* & præcedens trium sub Australi Cornu *Tauri* } 7ª | 12 | 29 | 50 | 299 | 26 | 12 | 29 | 50 |
| | | 16 | quæ hanc sequitur—— 8ª | 12 | 34 | 30 | 301 | 13 | 12 | 34 | 30 |
| | | 20 | hanc sequens magis ad Bor. 9ª | 12 | 30 | 25 | 299 | 50 | 12 | 30 | 25 |
| | | | quæ hanc sequitur ad Bor.— | 12 | 18 | 55 | 294 | 93 | 12 | 18 | 58 |
| | | | ipsam quæ sequitur ad Aust. | 12 | 16 | 00 | 293 | 75 | 12 | 16 | 00 |
| | | 30 | inter Cornua *Tauri* —— 1ª | 18 | 47 | 50 | 450 | 15 | 18 | 47 | 36 |
| | | | —————— 2ª | 17 | 17 | 35 | 414 | 27 | 17 | 17 | 42 |
| | | | —————— 3ª | 18 | 51 | 20 | 451 | 59 | 18 | 51 | 12 |
| | | 39 | —————— 4ª | 17 | 13 | 30 | 412 | 69 | 17 | 13 | 45 |
| | | 41 | —————— 5ª | 20 | 12 | 50 | 484 | 10 | 20 | 12 | 52 |
| | | 43½ | —————— 6ª | 18 | 33 | 40 | 444 | 56 | 18 | 33 | 36 |
| ♂ Mar. 23 | 7 | 42 | *Procyon* —— & —————— α | 46 | 20 | 00 | 1109 | 57 | 46 | 20 | 04 |
| | | | —————— rep. | 46 | 20 | 00 | 1109 | 59 | 46 | 20 | 07 |
| ♀ Oct. 16 | 9 | 32 | *Lucida in Mandibula Ceti* & Superius Cornu | 42 | 02 | 35 | 1006 | 89 | 42 | 02 | 49 |
| ♄ Nov. 27 | 6 | 53 | *Extr. Alæ Pegasi* & Lucida Plejadum —— | 50 | 55 | 55 | 1219 | 53 | 50 | 55 | 37 |
| | | 57 | —————— rep. | 50 | 55 | 45 | 1219 | 50 | 50 | 55 | 33 |
| | 8 | 06 | *Andromedæ Pes Lucid. Alam.* & Aust. & Min. ad ν | 45 | 27 | 05 | 1088 | 49 | 45 | 27 | 12 |
| | | 12½ | borealior ad —— μ | 43 | 38 | 10 | 1044 | 84 | 43 | 37 | 52 |
| | | | borealior & sequens ad — *b* | 42 | 37 | 10 | 1020 | 62 | 42 | 37 | 12 |
| | | | australis & Lucidior ad — *b* | 42 | 51 | 20 | 1026 | 22 | 42 | 51 | 14 |
| | | 38 | *Luc. Lat. Persei* & borea ad —— *b* | 38 | 35 | 10 | 923 | 97 | 38 | 34 | 57 |
| | | 42 | australis & lucidior ad — *b* | 39 | 06 | 30 | 936 | 48 | 39 | 06 | 15 |
| ♂ Dec. 7 *vel* ☿ 8 *mane* | 14 | 11 | *Procyon* —— & Lucida Plejadum —— | 58 | 43 | 00 | 1406 | 53 | 58 | 43 | 21 |
| | | 16 | —————— rep. | 58 | 43 | 00 | 1406 | 53 | 58 | 43 | 21 |
| ♃ 9 | 7 | 39 | *Lucida Arietis* & Lucida Plejadum —— | 22 | 56 | 50 | 549 | 25 | 22 | 56 | 34 |
| | | 42 | —————— rep. | 22 | 56 | 50 | 549 | 25 | 22 | 56 | 34 |
| | | 52 | —————— γ | 32 | 08 | 35 | 769 | 39 | 32 | 08 | 20 |
| | | | —————— rep. | 32 | 08 | 30 | 769 | 43 | 32 | 08 | 26 |
| | | 57 | Oculus boreus —— ε | 33 | 08 | 40 | 793 | 44 | 33 | 08 | 28 |
| | | 59 | —————— rep. | 33 | 08 | 35 | 793 | 42 | 33 | 08 | 25 |
| | 8 | 02 | Aldebaran —— α | 35 | 32 | 00 | 850 | 79 | 35 | 31 | 54 |
| | | 05 | —————— rep. | 35 | 32 | 00 | 850 | 81 | 35 | 31 | 57 |
| | | 09 | Cornu superius —— β | 44 | 42 | 45 | 1070 | 86 | 44 | 43 | 01 |
| | | 12 | —————— rep. | 44 | 42 | 45 | 1070 | 90 | 44 | 43 | 07 |
| | | 17 | Cornu inferius —— ζ | 48 | 28 | 40 | 1160 | 88 | 48 | 28 | 42 |
| | | 19 | —————— rep. | 48 | 28 | 35 | 1160 | 85 | 48 | 28 | 37 |
| MDCLXXXIII. | | | | | | | | | | | |
| ☿ Jan. 26 | 9 | 17½ | *Palilicium* — & Lucida Plejadum —— | 13 | 38 | 55 | 326 | 89 | 13 | 38 | 58 |
| MDCLXXXVIII. | | | | | | | | | | | |
| ☽ Jan. 30 | 8 | 38 | *Procyon* —— & Lucida Plejadum —— | 58 | 43 | 50 | 1406 | 65 | 58 | 43 | 39 |
| | | 41 | —————— rep. | 58 | 43 | 50 | 1406 | 64 | 58 | 43 | 37 |
| | | 48 | *Castor* —— & Lucida Plejadum —— | 50 | 16 | 55 | 1204 | 08 | 50 | 16 | 54 |
| | | 50 | —————— rep. | 50 | 17 | 05 | 1204 | 15 | 50 | 17 | 04 |
| | | 55 | *Pollux* —— & Lucida Plejadum —— | 53 | 05 | 45 | 1271 | 42 | 53 | 05 | 37 |
| | 9 | 02 | *Medusæ Cap. Algol* & Lucida Plejadum —— | 18 | 45 | 20 | 449 | 13 | 18 | 45 | 03 |
| | | 04 | —————— rep. | 18 | 45 | 30 | 449 | 13 | 18 | 45 | 03 |
| | | | *Omnes valdè accuratè* | | | | | | | | |
| ♂ 31 | 6 | 46 | *Seq. Hum. Orionis* & Lucida Plejadum —— | 34 | 49 | 35 | 833 | 72 | 34 | 49 | 12 |

| Anno Christi MDCLXXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *TAURI.* | Distantiae per lineas diagonales. ° ' " | Distantiae per Cochleae Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|
| ♂ Jan. 31 | 6 48 | *Seq. Hum. Orionis* & Lucida Plejadum rep. | 34 49 40 | 833 73 | 34 49 13 |
| | 7 22 | *Castor.* —— & Cornu Tauri Boreum —— | 27 48 50 | 665 84 | 27 48 52 |
| | 28 | —————— rep. | 27 48 50 | 665 99 | 27 49 15 |
| | 33 | Cornu Tauri Austrinum — | 28 11 40 | 675 01 | 28 11 51 |
| | 35 | —————— rep. | 28 11 35 | 674 99 | 28 11 48 |
| | 39 | *Pollux* —— & Cornu Tauri Austrinum — | 29 48 00 | 713 21 | 29 47 30 |
| | 44 | —————— rep. | 29 48 00 | 713 20 | 29 47 28 |
| | 46 | Cornu Tauri Boreum —— | 30 33 05 | 731 29 | 30 32 54 |
| | 49 | —————— rep. | 30 33 15 | 731 36 | 30 33 05 |
| | 53 | —————— iterum | 30 33 10 | 731 33 | 30 33 00 |

| Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *GEMINORUM.* | Distantiae per lineas diagonales. ° ' " | Distantiae per Cochleae Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|
| ♃ Nov. 9 | 5 51 | *Aldebaran* — & *Pes Lucidus* —— γ | | 698 02 | 29 09 28 |
| | | *Cor Leonis* —— & —— γ | | 1224 53 | 51 08 10 |
| ♀ 23 | 17 34 | *Cor Leonis* —— & Pollux —— β | | 836 26 | 37 00 37 |
| | | Castor —— α | | 970 65 | 40 31 57 |
| | | —————— κ | | 868 13 | 36 15 18 |
| | | —————— δ | | 989 79 | 41 19 57 |
| | 18 01 | —————— ζ | | 1075 66 | 44 55 07 |
| | | —————— υ | | 927 53 | 38 43 55 |
| | | —————— ι | | 985 29 | 41 08 40 |
| | | —————— b | | 965 23 | 40 18 22 |
| | | —————— τ | | 1073 87 | 44 50 37 |
| ☽ Dec. 18 | 8 35 | *Capella* —— & Castor —— α | bis | 718 23 | 30 00 03 |
| MDCLXXVII. | | | | | |
| ♀ Feb. 28 | 8 42 | *Cor Leonis* — & —— γ | | 1224 84 | 51 08 57 |
| | | —————— λ | | 992 82 | 41 27 33 |
| | 58 | *Procyon* —— & —— ζ | | 419 65 | 17 31 11 |
| | | —————— δ | | 414 83 | 17 19 07 |
| | 9 14 | —————— υ | | 517 42 | 21 36 32 |
| | | —————— rep. | | 517 4[illegible] | 21 36 42 |
| | 21 | —————— ι | | 544 17 | 22 43 42 |
| | 29 | —————— b | | 544 02 | 22 43 19 |
| | 44 | *Cor Leonis* — & —— μ | | 1306 92 | 54 34 27 |
| | | —————— η | | 1351 36 | 56 25 33 |
| | 51 | ——— προποῦς ——— H | | 1410 91 | 58 54 27 |
| | 56 | —————— ν | | 1272 64 | 53 08 42 |
| | 10 07 | *Seq. Humerus Aurigae* & —— ν | | 609 81 | 25 28 18 |
| | 15 | —————— μ | | 548 98 | 22 55 46 |
| | 35 | —————— η | | 542 63 | 22 39 51 |
| | 46 | ——— προποῦς ——— H | | 519 60 | 21 42 00 |
| ♃ Mar. 15 | 8 06 | *Castor* —— & Pes Lucidus —— γ | | 483 26 | 20 10 43 |
| | | —————— rep. | | 483 29 | 20 10 48 |
| | 22 | *Pes Lucidus* γ & —— ε | | 211 80 | 08 50 58 |
| | 37 | *Castor* —— & —— ω | | 250 65 | 10 28 12 |
| | 45 | *Cor Leonis* — & —— ε | | 1195 60 | 49 55 46 |
| | | —————— rep. | | 1195 56 | 49 55 40 |
| | 55 | *Cor Leonis* — & —— ω | | 1093 16 | 45 38 54 |
| | 9 03 | —————— A | | 982 97 | 41 02 51 |
| | 17 | *Castor* —— & —— A | | 174 07 | 07 16 25 |

| ANNO CHRISTI MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE GEMINORUM. | Diſtantia per lineas diagonales. ° ′ ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Mar. 16 | 7 40 | *Lucidus Pes Geminorum*, γ & ——— τ | | 379 06 | 15 49 36 |
| | | ——— rep. | | 379 01 | 15 49 28 |
| | 59 | *Quæ in Poplite Gemin. inferior.* λ, & ——— κ | | 239 31 | 09 59 52 |
| | 8 06 | ——— β | | 314 25 | 13 07 22 |
| | 15 | ——— σ | | 327 00 | 13 39 19 |
| | 26 | ——— α | | 378 80 | 15 48 57 |
| | 43 | *Lucidus Pes Geminorum*, γ, & ——— ρ | | 462 08 | 19 17 30 |
| | 9 05 | *Cor Leonis* — & ——— ω | | 1093 19 | 45 38 57 |
| | 12½ | ——— δ | | 989 90 | 41 20 13 |
| | 23 | * * p parvula hanc ſequens — p | | 946 22 | 39 30 40 |
| | 28 | * r hanc præcedens ad Auſtr. q | | 975 77 | 40 44 46 |
| | 33 | * quæ ſub p eſt ——— r | | 947 67 | 39 34 18 |
| | 10 23 | ——— A | | 982 99 | 41 02 54 |
| | 29 | ——— c | | 878 25 | 36 40 40 |
| | 47 | *Caſtor* ——— & ——— ω | | 250 66 | 10 28 13 |
| | 11 03 | ——— p | | 252 69 | 10 33 19 |
| | 12 | ——— r | | 281 74 | 11 46 03 |
| | 17½ | ——— q | | 282 46 | 11 47 51 |
| | 24 | ——— A | | 174 09 | 07 16 28 |
| | 37 | ——— s | | 196 88 | 08 13 34 |
| | 50 | *Cor Leonis* — & ——— s | | 1029 30 | 42 58 58 |
| | | exigua 1ª fere ſub s ——— | | 1037 54 | 43 19 36 |
| ♀ 21 | 8 29 | *Cor Leonis* — & Teleſcopica ſupra d ——— | | 1148 30 | 47 57 12 |
| | 36 | ——— d | | 1147 47 | 47 55 07 |
| | 39 | ——— ɔ | | 903 40 | 37 43 34 |
| | 47 | ——— f | | 871 53 | 36 23 50 |
| | 53 | ——— g | | 835 26 | 34 53 12 |
| | | quæ ſequitur g, ad boream | | 786 07 | 32 50 09 |
| | 9 15 | *Caſtor* ——— & ——— d | | 334 33 | 13 57 42 |
| | 40 | *Pollux* ——— & ——— ɔ | | 299 69 | 12 30 57 |
| | 49 | ——— f | | 250 33 | 10 27 24 |
| | 10 03 | *Cor Leonis* — & ——— ψ | | 768 05 | 32 04 58 |
| | 09 | ——— χ | | 795 21 | 33 12 55 |
| | 13 | ——— φ | | 836 80 | 34 57 03 |
| | 21 | ——— θ | | 1186 30 | 49 32 27 |
| | 27 | quæ in recta cum d & δ, o | | 1073 17 | 44 48 52 |
| | 32 | quæ ad bor. in anteced. hujus | | 1093 11 | 45 38 45 |
| MDCLXXIX. | | | | | |
| ♀ Feb. 7 | 8 02 | *Cor Leonis* — & ——— ξ | 49 31 25 | 1185 76 | 49 31 03 |
| | 06 | parvula borealior ——— | 49 49 05 | 1192 92 | 49 49 03 |
| | 15 | 2arum infra Propoda præced. | 61 14 30 | 1467 17 | 61 14 55 |
| | 18 | 2arum ſequentium borealis— | 59 01 40 | 1413 66 | 59 01 10 |
| | 22 | illarum Auſtralis ——— | 59 09 00 | 1416 67 | 59 08 42 |
| | 28 | ——— e | 47 14 50 | 1131 30 | 47 14 34 |
| | 39 | *Caſtor* ——— & ——— ξ | 22 06 40 | 529 48 | 22 06 54 |
| | | ——— e | 20 40 40 | 498::41 | 20 41::33 |
| | 9 18 | *Ult. Cing. Orionis* & 2arum infra Propoda præc. | 22 28 30 | 538 31 | 22 29 01 |
| | 24 | 2arum ſequentium borealis— | 22 47 50 | 545 98 | 22 48 15 |
| | 30 | ——— illarum auſtralis ——— | 22 20 50 | 534 94 | 22 20 34 |
| | 38 | *Caſtor* ——— & ——— λ | 15 48 20 | 378 97 | 15 49 22 |
| | 42 | ——— δ | 10 26 20 | 250 07 | 10 26 45 |
| 21 ♀ | 7 36 | *Aldebaran* — & ——— γ | 29 10 30 | 698 65 | 29 11 03 |
| | 38 | ——— rep. | 29 10 15 | 698 56 | 29 10 50 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Geminorum.* | | Distantiae per lineas diagonales. ° ' '' | Distantiae per Cochleae Revolutiones & circuli partes Respondentes. Revol. Cent. | ° ' '' |
|---|---|---|---|---|---|---|
| ♀ Feb. 21 | 7 40 | *Aldebaran* — & —————— | γ | 29 10 15 | 698 55 | 29 10 48 |
| | 8 29 | *Cor Leonis* — & —————— | δ | 41 19 20 | 989 66 | 41 19 37 |
| | 36 | —————— | θ | 49 31 35 | 1185 97 | 49 31 37 |
| | 42 | quæ supra Castora in recta cum illa & *b* | *d* | 40 40 55 | 974 42 | 40 41 24 |
| | 46 | —————— | π | 38 37 25 | 924 96 | 38 37 28 |
| ☿ 26 | 7 50 | *Aldebaran* — & —————— | γ | 29 10 25 | 698 66 | 29 11 05 |
| | | —————— | rep. | 29 10 30 | 698 70 | 29 11 11 |
| | | —————— | iter. | 29 10 25 | 698 65 | 29 11 03 |
| | 8 03 | Castor —————— | α | 43 12 20 | 1034 77 | 43 12 39 |
| | 13 | Pollux —————— | β | 45 03 35 | 1079 16 | 45 03 48 |
| | 49 | *Australis in pede præcedente Ursæ Majoris* κ & —————— | *c* | 26 31 30 | 635 27 | 26 32 09 |
| | 53 | —————— | κ | 27 40 45 | 663 00 | 27 41 46 |
| | 56 | —————— | φ | 24 36 50 | 589 57 | 24 37 36 |
| | 9 01 | —————— | χ | 22 39 20 | 542 57 | 22 39 42 |
| | 07 | —————— | ψ | 20 02 30 | 480 20 | 20 03 03 |
| ♂ Mar. 11 | 8 00 | *Aldebaran* — & Castor —————— | α | 43 12 00 | 1034 68 | 43 12 25 |
| | 07 | Pollux —————— | β | 45 03 30 | 1079 28 | 45 04 06 |
| | 22 | *Asellus boreus* & Calx Castoris —————— | μ | 32 29 05 | 777 90 | 32 29 36 |
| ☿ 26 | 9 37 | *Cor Leonis* — & —————— | δ | 41 19 40 | 990 08 | 41 20 40 |
| | | —————— | κ | 36 15 15 | 868 22 | 36 15 31 |
| | | —————— | *c* | 36 40 00 | 878 21 | 36 40 34 |
| | 53 | —————— | β | 37 00 30 | 886 27 | 37 00 40 |
| | 59 | —————— | α | 40 31 35 | 970 85 | 40 32 27 |
| ♄ 29 | 8 48 | *Cor Hydræ* — & —————— | γ | 48 55 45 | 1171 73 | 48 55 52 |
| | 51 | —————— | rep. | 48 55 50 | 1171 75 | 48 55 55 |
| ☽ Dec. 1 *vel mane* 2 | 16 18 | *Cor Leonis* — & προπῦς —————— | H | 58 53 45 | 1410 80 | 58 54 02 |
| | 23 | —————— | η | 56 25 10 | 1351 25 | 56 25 13 |
| | | —————— | μ | 54 33 40 | 1306 78 | 54 34 01 |
| | 28 | —————— | rep. | 54 33 30 | 1306 70 | 54 33 50 |
| | 32 | —————— | ν | 53 08 15 | 1272 55 | 53 08 15 |
| | 37 | —————— | ε | 49 55 05 | 1195 48 | 49 55 21 |
| | 47 | —————— | λ | 41 27 00 | 992 78 | 41 27 27 |
| | 52 | —————— | ζ | 44 54 50 | 1075 71 | 44 55 09 |
| | 56 | —————— | δ | 41 19 35 | 989 88 | 41 20 10 |
| | 17 00 | parvula hanc sequens — | *p* | 39 30 10 | 946 21 | 39 30 40 |
| | | —————— | *r* | 39 33 00 | 947 51 | 39 33 55 |
| | | —————— | *q* | 40 43 30 | 975 62 | 40 44 25 |
| | 18 | —————— | κ | 36 15 15 | 868 15 | 36 15 20 |
| | 25 | —————— | *c* | 36 39 50 | 878 11 | 36 40 13 |
| | 30 | Pollux —————— | β | 37 00 40 | 886 38 | 37 00 54 |
| | 36 | Castor —————— | α | 40 31 40 | 970 69 | 40 32 03 |
| ♂ 2 | 10 42 | *Lucida Arietis* & προπῦς —————— | H | 53 58 30 | 1292 73 | 53 58 54 |
| | 45 | —————— | rep. | 53 58 30 | 1292 72 | 53 58 52 |
| | 54 | Calx Castoris —————— | μ | 58 21 25 | 1397 88 | 58 21 44 |
| | 58 | —————— | rep. | 58 21 30 | 1397 91 | 58 21 48 |
| | 11 01 | —————— | η | 56 34 15 | 1354 89 | 56 34 20 |
| | 03½ | —————— | rep. | 56 34 10 | 1354 87 | 56 34 17 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *GEMINORUM.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Feb. 20 | 9 45 | *Humerus Aurigæ sequens* & προπῦς —— H | 21 41 55 | 519 55 | 21 41 57 |
| | $48\frac{1}{2}$ | —————— η | 22 39 50 | 542 52 | 22 39 40 |
| | 51 | —————— μ | 22 56 30 | 549 02 | 22 56 00 |
| | 56 | —————— ν | 25 28 20 | 609 84 | 25 28 24 |
| | 59 | —————— γ | 29 39 05 | 709 80 | 29 38 57 |
| | 10 02 | —————— ξ | 33 29 45 | 801 78 | 33 29 20 |
| | 15 | *Cor Leonis.* & —————— μ | 54 34 10 | 1307 02 | 54 34 37 |
| ☽ Mar. 1 | 7 53 | *Humerus sequens Aurigæ* & —————— ε | 21 45 15 | 520 90 | 21 45 21 |
| | 58 | —————— ω | 24 20 20 | 582 80 | 24 20 37 |
| | 8 06 | —————— d | 25 31 00 | 610 87 | 25 30 58 |
| | | d *habet tres sat lucidas sequentes ad Austrum* * * *quarum proxima* * *sesquiluna ab ea* *d *distat.* | | | |
| | 11 | —————— ζ | 27 46 40 | 665 28 | 27 47 28 |
| | $13\frac{1}{2}$ | —————— λ | 32 51 05 | 786 39 | 32 50 51 |
| ♄ 13 | 8 41 | *Cor Leonis* — & —————— d | 47 55 25 | 1147 68 | 47 55 34 |
| | 45 | parvularum supra *d* præcedens —— * — p | 49 16 00 | 1179 88 | 49 16 20 |
| | 47 | sequentium sequens —— s | 48 34 15 | 1163 28 | 48 34 42 |
| | | quæ infra ω ad Austr. — l | 44 48 55 | 1073 43 | 44 49 27 |
| | 57 | —————— ω | 45 38 55 | 1093 40 | 45 39 30 |
| | 9 00 | quæ in Apice $\triangle^{1}$ ab his facti in consequentiâ ω m | 43 23 00 | 1037 70 | : : |
| | 03 | supra hanc contiguar. borea, n | 42 59 20 | 1029 47 | 42 59 21 |
| | 45 | *Humerus Aurigæ sequens* & —————— d | 25 32 05 | 611 32 | 25 32 07 |
| | 55 | parvularum supra *d* præc. p | 23 36 20 | 565 18 | 23 36 30 |
| | 59 | sequentium sequens —— s | 23 59 05 | 574 25 | 23 59 12 |
| | 10 04 | contiguar. juxta Luc. & bor. | 23 59 05 | 574 21 | 23 59 06 |
| | 09 | —————— ω | 24 20 25 | 582 84 | 24 20 43 |
| | 14 | quæ infra ω ad Austr. — l | 26 03 00 | 623 70 | 26 03 09 |
| | 17 | quæ in Apice $\triangle^{1}$, australis m | 25 32 15 | 611 44 | 25 32 25 |
| | $20\frac{1}{2}$ | supra hanc contig. borea. n | 25 09 15 | 602 25 | 25 09 22 |
| ♄ 20 | 7 57 | *Humerus sequens Aurigæ* & —————— λ | 32 51 15 | 786 47 | 32 51 03 |
| | | hanc ad Auſt. pr; ad bor. verè | 32 42 45 | 783 12 | 32 42 39 |
| | | —————— ζ | 27 46 50 | 665 17 | 27 47 12 |
| | 8 13 | —————— δ | 28 17 20 | 677 29 | 28 17 33 |
| | | parvula hanc sequens — p | 29 40 00 | 710 34 | 29 40 18 |
| | | —————— r | 30 35 00 | 732 21 | 30 35 12 |
| | | —————— q | 29 49 30 | 714 09 | 29 49 42 |
| | 32 | —————— ε | 21 45 15 | 520 91 | 21 45 22 |
| | | *Distantiam Humeri Aurigæ à Corde Leonis vide sub Constellatione Aurigæ.* | | | |
| | 39 | *Procyon* —— & —————— θ | 30 38 10 | 733 46 | 30 38 21 |
| | | —————— τ | 25 33 10 | 611 88 | 25 33 32 |
| | 49 | Castor —————— α | 26 35 50 | 636 86 | 26 36 12 |
| | | —————— ρ | 26 33 30 | 635 84 | 26 33 39 |
| | 9 02 | lucidissima ad —— b | 22 43 05 | 543 87 | 22 43 03 |
| | | —————— ι | 22 43 50 | 544 15 | 22 43 45 |
| | 16 | —————— υ | 21 36 20 | 517 37 | 21 36 28 |
| ☽ 22 | 8 47 | *Procyon* —— & Castor —————— α | 26 35 55 | 636 76 | 26 35 57 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *GEMINORUM.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♂ Mar. 23 | 10 00 | *Cor Leonis* — & Pollux —— | β | 37 01 00 | 886 52 | 37 01 16 |
| | | —— | rep. | 37 01 00 | 886 53 | 37 01 18 |
| | | Castor —— | α | 40 32 05 | 970 93 | 40 32 40 |
| | | —— | rep. | 40 32 05 | 970 93 | 40 32 40 |
| ♃ Aug. 18 | 15 20 | *Pollux* —— & Calx Castoris —— | μ | 19 26 15 | 465 59 | 19 26 21 |
| ☽ Sept. 5 *mane* | 16 18 | *Procyon* —— & Pollux —— | | 22 45 10 | 544 88 | 22 45 36 |
| | | —— | rep. | 22 45 00 | 544 82 | 22 45 27 |
| | 43 | *Castor* —— & ejus Pes lucidus —— | γ | 20 10 40 | 483 36 | 20 11 00 |
| ♄ Nov. 13 | 11 52 | *Lucida Arietis* & Calx Castoris —— | μ | 58 21 10 | 1397 88 | 58 21 44 |
| ♄ 27 | 9 54 | *Capella* —— & Pollux —— | β | 34 17 15 | 820 90 | 34 17 09 |
| | 58 | *Lucidum Latus Persei* & Pollux —— | β | 53 20 40 | 1277 30 | 53 20 20 |
| | 10 02 | Castor —— | α | 49 00 05 | 1173 23 | 48 59 42 |
| | 7 | *Capella* —— & Castor —— | | 29 59 55 | 718 10 | 29 59 45 |
| ♂ Dec. 7 vel ☿ 8 *mane* | 14 31 | *Castor* —— & ejus Calx —— | μ | 18 27 25 | 442 36 | 18 28 05 |
| ♃ 9 | 10 00 | *Lucida Arietis* & Calx Castoris —— | μ | 58 21 30 | 1398 00 | 58 22 01 |
| | 3 | —— | rep. | 58 21 30 | 1398 03 | 58 22 06 |
| | 6 | —— | η | 56 34 15 | 1354 92 | 56 34 24 |
| | 9 | —— | rep. | 56 34 10 | 1354 98 | 56 34 33 |
| | 14 | προπῦ —— | H | 53 58 30 | 1292 80 | 53 59 05 |
| | 16 | —— | rep. | 53 58 30 | 1292 80 | 53 59 05 |
| | 11 06 | *Aldebaran* — & Castor —— | α | 43 12 35 | 1034 48 | 43 11 55 |
| | 9 | —— | rep. | 43 12 25 | 1034 65 | 43 12 21 |
| | 15 | Pollux —— | β | 45 03 35 | 1079 08 | 45 03 36 |
| | 19 | Pes lucidus —— | γ | 29 10 20 | 698 51 | 29 10 40 |
| | 22 | —— | rep. | 29 10 30 | 698 59 | 29 10 52 |
| MDCLXXXI. | | | | | | |
| ♂ Feb. 22 | 7 28½ | *Lucidum Latus Persei* & Pollux —— | β | 53 21 25 | 1277 84 | 53 21 40 |
| | 46½ | *Procyon* —— & Calx —— | μ | 25 15 50 | 604 83 | 25 15 50 |
| ♃ Mar. 24 | 7 41½ | *Lucidum Latus Persei* & Calx —— | μ | 44 14 10 | 1059 60 | 44 14 50 |
| | 44½ | —— | rep. | 44 14 05 | 1059 59 | 44 14 48 |
| ☿ Apr. 6 | 8 00 | *Pollux* —— & Capella —— | | 34 17 45 | 821 36 | 34 18 18 |
| | 02½ | —— | rep. | 34 17 50 | 821 38 | 34 18 21 |
| MDCLXXXII. | | | | | | |
| ☿ Mar. 15 | 8 31 | *Polaris* —— & —— | θ | 55 43 45 | 1335 03 | 55 44 41 |
| | 36½ | Castor —— | α | 57 55 50 | 1386::93 | 57 54 23 |
| | 40 | Pollux —— | | 61 49 45 | 1481·38 | 61 50 13 |
| ♀ Apr. 7 | 9 23 | *Regulus* —— & Pollux —— | β | 37 00 55 | 886 41 | 37 01 00 |
| | 26 | —— | rep. | 37 01 00 | 886 46 | 37 01 07 |
| | 29 | Castor —— | α | 40 31 55 | 970 76 | 40 32 13 |
| | 31 | —— | rep. | 40 31 50 | 970 75 | 40 32 12 |
| MDCLXXXV. | | | | | | |
| ♂ Mar. 24 | 8 27 | *Regulus* —— & —— | ζ | 44 54 35 | 1075 83 | 44 55 27 |
| | 32 | —— | rep. | 44 54 35 | 1075 83 | 44 55 27 |
| | 35 | —— | δ | 41 19 45 | 989 94 | 41 20 20 |
| | 38 | —— | λ | 41 27 35 | 992 93 | 41 27 50 |
| | 42 | —— | κ | 36 15 05 | 868 16 | 36 15 21 |
| | 45 | —— | υ | 38 44 00 | 927 62 | 38 44 05 |

| Anno Christi MDCLXXXV. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *GEMINORUM.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ″ ′ |
|---|---|---|---|---|---|---|
| ♂ Mar. 24 | 8 49 | *Regulus* — & ———— | ι | 41 08 45 | 985 50 | 41 09 12 |
| | 55½ | duarum borealior ad —— | b | 40 28 05 | 969 11 | 40 28 06 |
| | 58 | australior ad —— | b | 40 18 25 | 965 27 | 40 18 28 |
| | 9 00 | ———— | τ | 44 50 45 | 1074 09 | 44 51 06 |

| Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CANCRI.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☉ Dec. 3 | 17 43 | *Cor Leonis* — & Asellus Austrinus ———— | δ | | 506 16 | 21 08 19 |
| | | ———— | rep. | | 506 10 | 21 08 10 |
| | 53 | Asellus boreus ———— | γ | | 537 64 | 22 27 20 |
| | | Præsepis ———— | ε | | 537 75 | 22 27 41 |
| | 18 09 | *Cauda Leonis* & ———— | ι | | 1063 39 | 44 24 21 |
| | | ———— | ρ | | 1031 60 | 43 04 42 |
| | | *ρ, est duplex.* | | | | |
| MDCLXXVIII. | | | | | | |
| ♃ Apr. 11 | 9 13 | *Cauda Leonis* & ———— | γ | 44 34 10 | 1067 45 | 44 34 32 |
| | 24 | Præsepis ———— | ε | 45 14 40 | 1083 72 | 45 15 13 |
| | 28 | ———— | δ | 44 17 35 | 1060 89 | 44 18 06 |
| | 33 | ———— | θ | 47 24 00 | 1135 15 | 47 24 14 |
| | 38 | Borea præcedentium ad – | d | 49 20 30 | 1181 59 | 49 20 36 |
| | | *Hæc habet comitem adjacentem & exiguas* * ✳ *d remotiores ad Austrum* | | | | |
| | 48 | Australis ad ———— | d | 48 49 50 | 1169 44 | 48 50 07 |
| | 54 | Præcedens ad ———— | ζ | 52 02 45 | 1246 72 | 52 02 52 |
| | 57 | sequens in eodem plano – | ζ | 51 34 15 | 1235 07 | 51 34 35 |
| MDCLXXIX. | | | | | | |
| ♄ Feb. 26 | 9 49 | *Cauda Leonis* & in nube ———— | o | 45 25 00 | 1087 68 | 45 25 10 |
| | 53 | in nube { ———— | c | 45 11 00 | 1082 15 | 45 11 18 |
| | 56 | ———— | ε | 45 14 50 | 1083 68 | 45 15 07 |
| | 59 | ———— | κ | 39 31 50 | 946 84 | 39 32 14 |
| | 10 09 | ———— | α | 41 35 20 | 995 96 | 41 35 34 |
| | 15 | præcedens & Borealis ad | A | 45 08 50 | 1081 29 | 45 09 09 |
| | 20 | sequens & Australior ad | A | 44 19 50 | 1061 77 | 44 20 18 |
| | 25 | ———— | b | 45 12 20 | 1082 87 | 45 13 06 |
| | 28 | ———— | c | 47 08 15 | 1129 07 | 47 09 00 |
| | | *Huic comes est in conseq. sic* ✳ *c* * | | | | |
| | 32 | ———— | β | 52 12 30 | 1250 42 | 52 13 06 |
| | 38 | præcedens ad ———— | ζ | | 1246 59 | 52 03 30 |
| | 45 | ———— | μ | 52 50 10 | 1265 67 | 52 51 20 |
| | 50 | antecedens μ ad austrum — | | 55 45 30 | 1335 68 | 55 46 20 |
| | 11 01 | *✳ λ ———— | λ | 49 51 40 | 1194 17 | 49 52 07 |
| | 09 | *   * australior & lucidior ad – | o | 41 28 50 | 993 72 | 41 29 48 |
| | 11 | borealior & minor ad — | o | 41 22 40 | 991 19 | 41 23 27 |
| | 15 | ———— | π | 37 11 00 | 890 40 | 37 11 00 |
| | 20 | præcedens 2arum ad —— | ξ | 38 33 10 | 923 33 | 38 33 24 |
| | 22 | seq., exig. in eodem Plano – | | | 917 81 | 38 19 34 |
| | 25 | ———— | ν | 40 17 40 | 964 97 | 40 17 43 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE CANCRI. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♃ Feb. 27 | 9 41 | *Cauda Leonis* & Lucidior contig. præced. ω ad austrum | 55 26 45 | 1328 10 | 55 27 20 |
| | | *Nudis oculis una duntaxat fixa confusior videtur, per tubum duæ simul filum transeuntes.* | | | |
| | 48 | borealis duarum ad —— ω | 54 19 55 | 1301 20 | 54 20 04 |
| | 53 | trium ad ψ lucidissima —— | 52 10 20 | 1249 40 | 52 10 33 |
| | 58 | —————— χ | 50 05 25 | 1199 61 | 50 05 42 |
| | | australior ad —— φ | 48 34 55 | 1163 44 | 48 35 06 |
| | 10 07 | borealior & tenuior ad — φ | 48 43 10 | 1166 81 | 48 43 32 |
| | | quæ præcedit υ —— | 50::05 45 | 1199 61 | 50 05 42 |
| | 20 | præcedens duarum ad —— υ | 48 01 05 | 1150 06 | 48 01 33 |
| | 23 | sequens earum ad —— υ | 47 21 15 | 1134 07 | 47 21 32 |
| | | *Hæc habet comitem 18′ dist. in eodem Plano.* | | | |
| | 29 | —————— ν | 40 17 40 | 964 88 | 40 17 30 |
| | 33 | præcedens & lucidior ad ξ | 38 33 15 | 923 40 | 38 33 34 |
| | 36 | sequens ad —— ξ | 38 19 35 | 917 81 | 38 19 34 |
| | 39 | —————— γ | 44 34 10 | 1067 36 | 44 34 20 |
| ☿ Mar. 26 | 8 30 | *Cauda Leonis* & —————— ι | 44 24 30 | 1063 38 | 44 24 21 |
| | | duarum ad ρ præced. boreal. | 43 01 40 | 1030 19 | 43 01 10 |
| | | *Tres sunt ad ρ, quarum duæ contiguæ.* | | | |
| | 41 | harum australior —— | 43 05 00 | 1031 51 | 43 04 28 |
| | 45 | ad ρ sequens & lucidior—— | 42 20 05 | 1013 69 | 42 19 51 |
| | 50 | —————— τ | 40 00 50 | 958 05 | 40 00 22 |
| | | præcedens trium ad —— σ | 43 53 00 | 1050 59 | 43 52 19 |
| | 9 05 | media & borealior —— | 43 05 45 | 1031 73 | 43 05 01 |
| | | *b *a * *c *Hæc habet tres circumsitas,* a *lucidam sequentem,* b *&* c, *exiguas præcedentes.* | | | |
| | 16 | sequens ad —— σ | 42 26 20 | 1016 05 | 42 25 45 |
| | 20 | Comes hujus paululum australior in conf. & minor | 42 01 30 | 1006 14 | 42 00 55 |
| | | quæ intermedia in recta cum sequente ad ρ & præcedente. ad σ —— | 43 07 20 | 1032 40 | 43 06 43 |
| ♄ 29 | 8 36 | *Cor Leonis* — & Asellus austrinus —— δ | 21 08 30 | 506 13 | 21 08 15 |
| | | —————— rep. | 21 08 35 | 506 18 | 21 08 22 |
| | 57 | *Procyon* —— & Cor Hydræ —— | 30 20 45 | 726 37 | 30 20 27 |
| | 9 04 | *Cauda Leonis* & Cor Hydræ —— | 42 06 45 | 1008 51 | 42 06 53 |
| | 10 | *Cor Leonis* — & Cor Hydræ —— | 22 59 30 | 550 48 | 22 59 40 |
| | | *Cor Hydræ* — & Cancri —— ζ | 32 15 35 | 771 87 | 32 14 33 |
| | 29 | —————— μ | 36 02 50 | 862 87 | 36 02 07 |
| | 33 | borea præcedentium ad — *d* | 31 18 40 | 749 37 | 31 18 18 |
| | | *Hanc sequitur Exigua* 10 *min. dist. ad Austrum.* | | | |
| | 38 | Australior duarum ad—— *d* | 29 54 45 | 715 79 | 29 54 01 |
| | | *Hanc præcedit exigua* 12 *min. distant. ab ea.* | | | |
| | 41 | —————— θ | 30 07 10 | 720 89 | 30 06 44 |
| | 48 | —————— η | 32 05 40 | 767 99 | 32 04 50 |
| | | Asellus boreus —— γ | 32 02 20 | 766 63 | 32 01 35 |
| | 10 05 | Præsepis—— *c* | 30 37 40 | 733 00 | 30 37 03 |
| | | Præsepis—— ε | 30 30 20 | 730 14 | 30 29 54 |
| | | Asellus austrinus—— δ | 28 51 15 | 690 47 | 28 50 37 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE CANCRI. | | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. | Cent. | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☿ Apr. 2 | 8 37 | *Cor Hydræ* — & ———— | π | 23 | 47 | 40 | 569 | 57 | 23 | 47 | 32 |
| | | ———— | κ | 19 | 57 | 10 | 477 | 60 | 19 | 56 | 40 |
| | 47 | ———— | α | 21 | 45 | 50 | 520 | 98 | 21 | 45 | 27 |
| | 57 | auſtralior & lucidior ad | o | 25 | 08 | 00 | 601 | 53 | 25 | 07 | 34 |
| | 9 03 | borealior & minor ad — | o | 25 | 21 | 20 | 606 | 90 | 25 | 21 | 01 |
| | 13 | ſequens & auſtr. ad —— | A | 23 | 06 | 30 | 552 | 98 | 23 | 05 | 57 |
| | 18 | præcedens & borealis ad – | A | 24 | 01 | 30 | 575 | 00 | 24 | 01 | 06 |
| | 23 | ———— | b | 21 | 34 | 00 | 516 | 29 | 21 | 33 | 42 |
| | 30 | ———— | c | 22 | 13 | 30 | 531 | 92 | 22 | 13 | 00 |
| | 37 | Aſellus auſtrinus —— | δ | | | | 690 | 43 | 28 | 50 | 32 |
| | 50 | Præſepis quæ mihi o —— | | 30 | 47 | 25 | 736 | 89 | 30 | 46 | 51 |
| | 57 | Aſellus boreus ——— | γ | 32 | 02 | 10 | 766 | 67 | 32 | 01 | 33 |
| MDCLXXX. | | | | | | | | | | | |
| ☽ Mar. 22 | 9 02 | *Cor Hydræ* — & ———— | ζ | 32 | 15 | 00 | 771 | 77 | 32 | 14 | 16 |
| | | *Hanc comes ſequitur ad Boream.* | | | | | | | | | |
| | 05 | ———— | μ | 36 | 02 | 10 | 862 | 74 | 36 | 01 | 48 |
| | 10 | ———— | λ | 36 | 32 | 50 | 875 | 13 | 36 | 32 | 46 |
| | 14 | præced. $2^{arum}$ ad —— | υ | 35 | 49 | 20 | 857 | 60 | 35 | 48 | 55 |
| | 16 | ſequens & lucidior ad — | υ | 35 | 28 | 45 | 849 | 50 | 35 | 28 | 39 |
| | 22 | $2^{arum}$ ad ω præced. & borea | | 40 | 03 | 05 | 959 | 07 | 40 | 02 | 55 |
| | 24½ | ſequens & auſtralis ad — | ω | 39 | 41 | 30 | 950 | 58 | 39 | 41 | 37 |
| | 29 | trium ad ψ lucidiſſ. & auſtr. | | 39 | 00 | 05 | 933 | 89 | 38 | 59 | 46 |
| | 31½ | ———— | χ | 39 | 27 | 20 | 944 | 71 | 39 | 26 | 54 |
| | 34½ | boreal. tenuior & præc. ad | φ | 39 | 26 | 10 | 944 | 23 | 39 | 25 | 42 |
| | 36 | auſtralior ad ——— | φ | 38 | 31 | 05 | 922 | 35 | 38 | 30 | 54 |
| | 40½ | ———— | ι | 38 | 41 | 40 | 926 | 53 | 38 | 41 | 21 |
| | 47 | $2^{arum}$ ad ρ præced. borealior | | 37 | 57 | 05 | 908 | 63 | 37 | 56 | 34 |
| | | harum auſtralior ——— | | 37 | 52 | 25 | 906 | 81 | 37 | 52 | 01 |
| | 50 | ad ρ ſequens lucidior & auſtralis ——— | | 37 | 23 | 10 | 895 | 10 | 37 | 22 | 44 |
| | 57 | ———— | τ | 38 | 35 | 30 | 924 | 07 | 38 | 35 | 12 |
| | 10 00½ | præcedens trium ad——— | σ | 41 | 58 | 05 | 1004 | 92 | 41 | 57 | 52 |
| | 4½ | media & borealis ad ——— | σ | 42 | 12 | 15 | 1010 | 65 | 42 | 12 | 13 |
| | | hanc ſequens ad ——— | σ | 41 | 36 | 55 | 996 | 52 | 41 | 36 | 50 |
| | 9 | Comes hujus paululum auſtralior in conſequentia & minor ——— | | 41 | 22 | 50 | 990 | 94 | 41 | 22 | 50 |
| | 12 | quæ intermedia in recta cum ſequente ad ρ & præcedente ad σ ——— | | 40 | 02 | 25 | 958 | 86 | 40 | 02 | 24 |
| ♂ 23 | 9 11 | *Cor Hydræ* — & ———— | ν | 33 | 39 | 20 | 805 | 70 | 33 | 39 | 07 |
| | 15 | Lucidior ad ——— | ξ | 31 | 01 | 30 | 742 | 63 | 31 | 01 | 24 |
| ☿ Apr. 7 | 9 16 | *Cor Leonis* — & Quæ in recta cum β ♋ & θ ♊ Geminorum ——— | θ | 30 | 06 | 10 | 721 | 01 | 30 | 07 | 03 |
| | 22 | | | 49 | 31 | 50 | 1186 | 27 | 49 | 32 | 19 |
| | 29 | *Geminor.* θ — & dicta in recta cum β ♋ & ipſa | θ | 26 | 31 | 50 | 635 | 16 | 26 | 31 | 55 |
| MDCLXXXI. | | | | | | | | | | | |
| ♀ Apr. 8 | 9 10 | *Cauda Leonis* & ———— | n | 47 | 03 | 00 | 1226 | 84 | 47 | 03 | 24 |
| | 17 | contig. ad ω borealis —— | | 54 | 19 | 55 | 1301 | 30 | 54 | 20 | 20 |
| | 19 | illarum auſtrina ——— | | 54 | 09 | 15 | 1297 | 05 | 54 | 09 | 42 |
| | 33 | quæ præcedit ω ad auſtr.— | | 55 | 27 | 35 | 1328 | 53 | 55 | 28 | 25 |
| | 40 | *Cor Hydræ* — & ———— | x | 38 | 25 | 15 | 919 | 95 | 38 | 24 | 53 |
| | 44 | ———— | y | 38 | 33 | 35 | 923 | 45 | 38 | 33 | 39 |
| | | *Cauda Leonis* & ———— | x | 54 | 38 | 35 | 1308 | 80 | 54 | 39 | 05 |
| | | ———— | y | 54 | 20 | 15 | 1301 | 39 | 54 | 20 | 33 |

| Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CANCRI.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Apr. 8 | 9 44 | *Cor Hydræ* — & contig. præced. ω ad Auſtr. bor. & minor | 39 20 00 | 941 82 | 39 19 39 |
| | | Auſtralior & lucidior | 39 16 00 | 940 21 | 39 15 37 |
| | | *Hæ ſunt quæ in Diſtantia a Cauda Leonis captæ ſimul tranſibant Filum.* | | | |

| Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *LEONIS.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♃ Mar. 29 | 9 06 | *Cor Leonis* α — & Cauda — β | | 590 09 | 24 38 54 |
| | 13 | *Cauda Leonis* — & — γ | | 647 62 | 27 03 13 |
| | 20 | — ψ | | 727 48 | 30 23 15 |
| | 24 | — η | | 589 22 | 24 36 43 |
| | 30 | — γ | | 525 99 | 21 58 07 |
| | 35 | — ε | | 729 54 | 30 28 24 |
| | 42 | — κ | | 854 07 | 35 40 10 |
| | 46 | — λ | | 802 67 | 33 31 37 |
| | 52 | — μ | | 706 17 | 29 29 50 |
| | 57 | — ζ | | 563 96 | 23 33 27 |
| | 10 03 | *Arcturus* — & Cauda in = alt. — β | | 846 82 | 35 22 00 |
| | 11 | Cor — α | | 1431 77 | 59 46 34 |
| ♀ 30 | 9 57 | *Cor Leonis* — & — ι | | 444 10 | 18 32 28 |
| | 10 06 | — σ | | 452 77 | 18 54 13 |
| | | — χ | | 352 57 | 14 43 19 |
| ☽ Apr. 23 | 10 13 | *Præcedens in Ala auſtrina Virginis* & Cor Leonis — α | | 652 20 | 27 14 42 |
| | 22 | — ο | | 792 84 | 33 07 00 |
| | 30 | — π | | 673 61 | 28 08 22 |
| | 35 | — A | | 640 53 | 26 45 20 |
| | | *Hæc habet lucidam ſequentem ad Diſtantiam Diametri lunaris* — | | | |
| | 39 | — ρ | | 496 06 | 20 42 48 |
| | 44 | Exigua ſeq. ρ paulo boreal. | | 478 32 | 19 58 12 |
| | 48 | Altera auſtralior in recta cum γ & ρ — | | 467 90 | 19 32 04 |
| ♀ Maij. 18 | 10 05 | *Lucida Coronæ* – & Cauda Leonis — β | | 1285 82 | 53 41 38 |
| | 30 | *Lucida in Juba Leonis* γ & — χ | | 399 07 | 16 39 46 |
| | 39 | — σ | | 486 85 | 20 19 43 |
| | 48 | *Cauda Leonis* — & — χ | | 311 82 | 13 01 16 |
| | 54 | — σ | | 263 19 | 10 59 39 |
| ♀ Dec. 21 | 6 33⅓ | *Spica Virginis* — & Cor Leonis — α | | 1294 14 | 54 02 25 |
| | 36 | — rep. | | 1294 15 | 54 02 26 |
| MDCLXXIX. | | | | | |
| ♃ Feb. 6 | 9 30 | *Lucidus Pes Geminorum* & — γ | 52 40 40 | 1261 53 | 52 40 53 |
| | 36 | — η | 50 05 35 | 1199 42 | 50 05 13 |
| | 41 | — α | 51 09 05 | 1225 00 | 51 09 21 |
| ♄ Apr. 26 | 9 36⅓ | *Sequens in ſiniſtra Ala* ♍ γ & — ο | 46 22 10 | 1110 59 | 46 22 37 |
| | | — ω | 49 18 30 | 1181 02 | 49 19 18 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *LEONIS.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Apr. 26 | 9 | *Sequens in sinistra Ala* ♍ γ — & — b | 48 34 00 | 1163 26 | 48 34 37 |
| | | — ξ | 48 52 25 | 1170 68 | 48 53 18 |
| | 58½ | Præcedens & borea $2^{arum}$ parvularum in recta cum ο & n angulum rectum inter ψ & ν constituentium ad austrum — | 45 33 00 | 1091 10 | 45 33 45 |
| | | Harum sequens & minor — | 45 14 10 | 1083 46 | 45 14 34 |
| | | Præced. $2^{arum}$ antecedent. ψ | 48 40 15 | 1165 87 | 48 41 10 |
| | 10 14 | harum sequens — | 48 07 30 | 1152 72 | 48 08 13 |
| | | *Hanc ad Austrum nonnullæ comitantur.* | | | |
| | | — ψ | 46 44 50 | 1119 54 | 46 45 06 |
| | | — ν | 42 55 15 | 1028 07 | 42 55 54 |
| | 29 | — α | 40 23 45 | 967 30 | 40 23 33 |
| ☽ 28 | 9 38 | *Sequens in sinistra Ala* ♍ & — A | 39 58 50 | 957 45 | 39 58 53 |
| | 44 | — π | 41 23 35 | 991 45 | 41 24 06 |
| | 50 | Exigua præced. ρ ad Austr. | 36 18 45 | 869 46 | 36 18 39 |
| | 56 | — ρ | 33 53 20 | 811 42 | 33 53 30 |
| | 10 01 | quæ hanc prox. seq. ad Aust. | 33 10 35 | 794 22 | 33 10 27 |
| | 10 | quæ his austral. in conseq. | 32 47 20 | 784 89 | 32 47 12 |
| | 12 | — l | 30 28 00 | 729 45 | 30 28 09 |
| | 16½ | — χ | 25 40 10 | 614 70 | 25 40 34 |
| | 33 | — c | 26 20 15 | 630 74 | 26 20 48 |
| | 37 | — d | 25 48 40 | 618 24 | 25 49 27 |
| ☿ 30 | 9 43 | *Sequens in sinist. Ala* ♍ & — d | 25 48 30 | 618 14 | 25 49 12 |
| | | *Hæc habet Exiguam ad boream $7^{r}$ dist.* * * | | | |
| | 53 | Quæ sequitur ad Austr. — p | 23 56 35 | 573 24 | 23 56 44 |
| | | *Hæc habet Exiguam præced. ad Austrum* * * * | | | |
| | | — q | 21 25 35 | 513 14 | 21 25 48 |
| | 10 13 | — r | 19 39 25 | 470 87 | 19 39 32 |
| | | — τ | 18 57 40 | 454 32 | 18 58 03 |
| | | *Hæc habet plures lucid. antecedentes, Comitemque ab utro latere in recta cum ipsa.* | | | |
| | 20 | — s | 22 03 35 | 528 22 | 22 03 43 |
| | | — t | 24 35 35 | 589 06 | 24 36 20 |
| ☽ Dec. 1 | 17 55 | *Arcturus* — & Cor — α | 59 46 00 | 1431 51 | 59 45 46 |
| | 18 01 | — γ | 55 18 55 | 1324 89 | 55 19 20 |
| ♃ 18 | 16 55 | *Pollux* — & Cauda — β | 57 44 50 | 1383 17 | 57 44 58 |
| ☉ 21 | 18 46 | *Spica Virginis* & Cor — α | 54 22 15 | 1294 14 | 54 02 25 |
| MDCLXXX. | | | | | |
| ☽ Jan. 26 | 11 13 | *Lucidus Pes Geminorum* & — γ | 52 40 05 | 1261 41 | 52 40 34 |
| | 16 | — rep. | 52 40 05 | 1261 42 | 52 40 35 |
| | 23 | *Calx Castoris* μ, & — γ | 54 55 45 | 1315 64 | 54 56 12 |
| | | — rep. | 54 55 45 | 1315 65 | 54 56 13 |
| | 25 | *Lucidus Pes Geminorum* & — n | 50 04 25 | 1199 35 | 50 05 03 |
| | | — rep. | 50 04 25 | 1199 33 | 50 05 00 |
| | 39 | — α | 51 08 30 | 1224 90 | 51 09 06 |
| | | — rep. | 51 08 30 | 1224 89 | 51 09 05 |

| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *LEONIS.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Jan. 26 | 11 51 | *CalxCaſtoris μ,* — & —— α | 54 34 15 | 1307 05 | 54 34 42 |
| | 59 | *Cor Leonis* —— & Cauda —— β | 24 38 45 | 590 12 | 24 38 57 |
| | 12 08 | —— rep. | 24 38 40 | 590 05 | 24 38 47 |
| | | —— iter. | 24 38 40 | 590 07 | 24 38 50 |
| | 18 | *Pollux* —— & —— δ | 47 44 45 | 1143 46 | 47 45 00 |
| | | —— rep. | 47 44 45 | 1143 48 | 47 45 03 |
| | 28 | —— β | 57 45 10 | 1383 15 | 57 44 55 |
| ☽ Mar. 1 | 8 36 | *Lucidus Pes Geminorum* & —— η | 50 04 25 | 1199 24 | 50 04 46 |
| | 43 | —— γ | 52 39 50 | 1261 33 | 52 40 22 |
| | 56 | —— ζ | 51 39 25 | 1237 26 | 51 40 05 |
| | 9 32 | *Procyon* —— & —— α | 37 21 55 | 894 87 | 57 22 09 |
| ♂ 23 | 10 00 | *Caſtor* —— & —— α | 40 32 05 | 970 93 | 40 32 39 |
| | | *Pollux* —— & —— α | 37 01 00 | 886 52 | 37 01 16 |
| | | *Ultima caudæ Urſæ majoris* & —— α | 58 19 45 | 1397 29 | 58 20 15 |
| ☿ 24 | 9 08 | *Urſæ majoris μ,* — & —— ο | 32 52 30 | 787 20 | 32 52 53 |
| | 12 | —— b | 33 39 50 | 806 12 | 33 40 10 |
| | 15 | —— ω | 34 33 05 | 827 44 | 34 33 30 |
| | 17 | quæ eſt infra ω —— | 35 22 15 | 847 12 | 35 22 42 |
| | 24 | —— ξ | 32 08 45 | 769 79 | 32 09 35 |
| | 30 | ſuperior duarum infra ο, in recta cum eâ & ε —— | 36 05 00 | 864 13 | 36 05 16 |
| | 35 | harum inferior —— | 38 06 55 | 912 93 | 38 07 20 |
| | 38 | præcedens 2arum in recta cum ο & η, angulum rectum inter ν & ψ conſtituentium. —— | 30 42 15 | 735 34 | 30 43 05 |
| | 42 | harum ſeq. Auſtr. & minor | 30 52 50 | 739 59 | 30 53 45 |
| | 47 | —— ν | 29 31 20 | 706 96 | 29 31 51 |
| | 49 | —— ψ | 28 43 20 | 687 86 | 28 44 01 |
| | 54 | præced. 2arum antecedent. ψ | 28 55 45 | 692 72 | 28 56 10 |
| | | harum ſequens —— | 28 47 20 | 689 47 | 28 48 03 |
| | 10 09 | *Sequens in ſiniſt. Ala Virginis γ,* & Urſæ majoris in Pede Poſteriorum præcedente, inferior μ — | 53 18 20 | 1276 41 | 53 18 06 |
| | 15 | *Eadem ♍ γ,* —— & 2arum infra ο, in recta cum ea & ε, infer. | 46 11 50 | 1106 36 | 46 12 01 |
| | 19½ | harum ſuperior —— | 46 47 50 | 1120 77 | 46 48 10 |
| | 22 | quæ eſt infra ω —— | 49 08 55 | 1176 94 | 49 08 58 |
| | 27 | præced. 2arum antecedent. ψ | 48 39 55 | 1165 48 | 48 40 15 |
| | 32 | harum ſequens —— | 48 09 10 | 1153 32 | 48 09 43 |
| ♃ Apr. 15 | 8 58 | *Pollux* —— & —— α | 37 00 55 | 886 53 | 37 01 18 |
| | | —— rep. | 37 00 55 | 886 54 | 37 01 20 |
| | | *Caſtor* —— & —— α | 40 32 05 | 970 97 | 40 32 45 |
| ☿ 21 | 8 41 | *Caſtor* —— & —— α | 40 31 50 | 970 87 | 40 32 30 |
| | 45 | —— rep. | 40 31 55 | | |
| | 9 24½ | *VindemiatrixVirginis,* & —— λ | 51 29 10 | 1233 11 | 51 29 40 |
| | 28 | —— κ | 53 22 20 | 1278 17 | 53 22 30 |
| | 32 | —— θ | 48 19 20 | 1157 43 | 48 20 03 |
| | 35 | —— g | 47 02 45 | 1126 39 | 47 02 19 |
| | 38 | —— μ | 47 04 30 | 1127 43 | 47 04 52 |
| | 43 | Auſtralior ad —— f | 49 48 55 | 1193 14 | 49 49 30 |
| | 46 | —— ζ | 41 17 30 | 989 11 | 41 18 15 |
| | 10 05 | —— x | 34 32 10 | 827 07 | 34::32 35 |
| | 10 | —— w | 32 50 10 | 786 21 | 32 50 24 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE LEONIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Apr. 21 | 10 15 | Vindemiatrix Virginis & 2[rum] ad u præced. & borealior | 33 46 50 | 808 99 | 33 47 20 |
| | 20 | feq. & auftralior ad —— u | 33 03 40 | 791 70 | 33 04 07 |
| | 53 | duarum ad t, auftralior — | 31 48 05 | 761 67 | 31 49 01 |
| | 57½ | duar. ad t, boreal. & lucidior | 31 26 45 | 753 01 | 31 27 20 |
| | 11 04 | —— s | 29 07 10 | 697 38 | 29 07 50 |
| | 9 | —— p | 29 58 00 | 717 63 | 29 58 33 |
| ♃ 22 | 9 23 | Vindemiatrix ♍ & —— q | 27 32 15 | 659 51 | 27 33 00 |
| | 28 | —— r | 26 11 00 | 627 12 | 26 11 45 |
| | 33 | —— τ | 24 45 05 | 592 84 | 24 45 45 |
| | 39 | —— d | 31 02 20 | 743 29 | 31 03 03 |
| | 44 | Juba —— γ | 40 02 20 | 958 99 | 40 02 45 |
| | 10 12½ | Juba Leonis γ, & ejufdem —— x | 23 30 15 | 562 71 | 23 30 18 |
| | 21 | —— w | 24 36 00 | 588 83 | 24 35 44 |
| | 30 | præced. & bor. duar. ad — u | 20 24 15 | 488 80 | 20 24 44 |
| | 35 | feq. Auftr. & lucid. ad — u | 21 01 55 | 503 57 | 21 01 50 |
| | | duarum ad t, auftralior. — | 23 11 15 | 555 07 | 23 11 10 |
| | 45 | Borealis & lucidior ad — t | 22 33 55 | 540 21 | 22 33 50 |
| | 50 | —— s | 23 54 10 | 572 35 | 23 54 27 |
| | 58 | —— d | 19 01 55 | 455 54 | 19 01 06 |
| | 11 03 | —— p | 21 17 05 | 509 70 | 21 17 15 |
| | 10½ | Lucidior ad —— q | 22 41 20 | 543 19 | 22 41 21 |
| | 16 | —— r | 24 13 10 | 579 89 | 24 13 21 |
| | 22 | —— τ | 23 45 55 | 569 11 | 23 46 20 |
| ♂ 26 | 9 45¼ | Vindemiatrix ♍ — & —— ε | 48 19 15 | 1157 38 | 48 19 55 |
| ♀ Dec. 10 | 15 52 | Cor Hydræ —— & —— κ | 34::50 20 | 834::12 | 34 50 12 |
| | 16 08 | Hydræ ζ, —— & quæ antecedit b —— | 29 56 25 | 717 07 | 29 57 09 |
| | 12 | —— b | 33 54 35 | 812 16 | 33 55 16 |
| | 16 | —— δ | 36 37 10 | 877 07 | 36 37 37 |
| | 22 | quæ fupra δ quintæ lucis — | 37 45 10 | 904 23 | 37 45 35 |
| | 25 | —— θ | 35 20 10 | 846 00 | 35 19 54 |
| | 29 | —— n | 31::10 30 | 746 11 | 31 10 06 |
| | 37 | Hydræ ζ, —— & anteced. in ala Auftr. ♍ β | 43 49 35 | 1049 45 | 43 49 25 |
| | 41 | —— rep. | 43 49 35 | 1049 46 | 43 49 26 |
| | 46 | Anteced. in Ala Auftr. Virginis, β, & quæ anteced. b borealior. | 23::12 25 | 555 49 | 23 12 13 |
| | 49 | —— b | 21 48 35 | 522 25 | 21 48 45 |
| | 51 | —— δ | 20 43 45 | 496 51 | 20 44 09 |
| | 54 | quæ fupra δ, quintæ lucis — | 22 57 15 | 549 34 | 22 56 48 |
| | 17 00 | —— θ | 16 18 00 | 390 45 | 16 18 03 |
| | 4 | —— n | 14 20 40 | 343 50 | 14 20 33 |
| | 17 | Hydræ ζ, —— & quæ antecedit b borealior. | 29 56 20 | 717 05 | 29 57 06 |
| MDCLXXXI. | | | | | |
| ☿ Feb. 23 | 9 39 | Cauda Leonis, — & lucida Cervicis —— γ | 21 57 45 | 525 84 | 21 57 45 |
| | | —— repetit. melius — | 21 57 55 | 525 93 | 21 57 58 |
| ☿ Mar. 30 | 8 35 | Cor Leonis, —— & Ejufdem —— c | 14 10 55 | 339 58 | 14 10 45 |
| | 39 | —— χ | 14 42 50 | 352 44 | 14 42 55 |
| | 43 | —— σ | 18 53 55 | 452 67 | 18 53 44 |
| | 48 | —— τ | 21 40 35 | 519 05 | 21 40 42 |
| | 51 | —— υ | 25 25 20 | 608 63 | 25 25 21 |
| | 55 | —— e | 25 14 40 | 604 44 | 25 14 51 |
| | 58 | —— φ | 23 03 10 | 551 88 | 23 03 10 |
| | 9 14 | quæ fequitur τ —— | 23 04 00 | 552 21 | 23 04 00 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *LEONIS.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Mar. 30 | 9 20 | *Cor Leonis* — & Informis inter Caudas Leonis & Urſæ majoris vel Cor Caroli | 45 35 20 | 1091 98 | 45 35 57 |
| | 22 | rep. | 45 35 20 | 1091 54 | 45 35 31 |
| | 27 | *Informis dicta* & φ | 47 50 10 | 1145 82 | 47 50 55 |
| | 34 | e | 45 49 05 | 1097 45 | 45 49 40 |
| | 36 | υ | 43 10 30 | 1033 94 | 43 10 33 |
| | 40 | quæ ſequitur τ | 39 51 45 | 955 00 | 39 52 44 |
| | 43 | τ | 40 45 25 | 976 52 | 40 46 40 |
| | 46 | σ | 38 47 15 | 929 13 | 38 47 52 |
| | 48 | χ | 39 49 15 | 953 98 | 39 50 09 |
| | 49 | c | 41 27 45 | 993 15 | 41 28 22 |
| ♃ Mar. 31 | 8 33 | *Cor Leonis* — & l | 10 06 30 | 242 01 | 10 06 33 |
| | 41 | *Lucida in Lum.* ♌ & l | 11 38 40 | 279 07 | 11 39 16 |
| | 57½ | Regulus α | 17 53 55 | 428 96 | 17 54 30 |
| | | trium juxta ſequentium ad boream 1ª | 16 32 55 | 396 55 | 16 33 20 |
| | | ſequens borealior 2ª | 15 17 15 | 366 39 | 15 17 48 |
| | | 3ª | 13 36 30 | 326 07 | 13 36 55 |
| | | 4ª | 11 51 20 | 284 06 | 11 51 46 |
| | 9 21 | 5ª k | 10 13 50 | 245 13 | 10 14 21 |
| | | in Capite ε | 20 38 55 | 494 65 | 20 39 27 |
| | | *Lucid in Cap.* ε, & 5ª k | 17 12 25 | 412 12 | 17 12 36 |
| | | 4ª | 14 35 05 | 349 29 | 14 35 02 |
| | | 3ª | 12 13 00 | 292 55 | 12 13 02 |
| | | 2ª | 12 24 20 | 297 24 | 12 24 46 |
| | 9 54 | 1ª | 12 04 15 | 289 09 | 12 04 22 |
| ♄ Apr. 2. | 8 06 | *Lucid. in Cap.* ε, & k | 17 12 35 | 412 24 | 17 12 37 |
| ☽ 4 | 9 09 | *Pollux* — & Lucida in Lumbis δ | 47 44 50 | 1143 60 | 47 45 21 |
| | 11½ | rep. | 47 44 45 | 1143 57 | 47 45 16 |
| | 14 | *Caſtor*, — & in Lumbis lucida δ | 49 58 20 | 1196 80 | 49 58 39 |
| | 16 | rep. | 49 58 25 | 1196 81 | 49 58 40 |
| ♄ 30 | 10 08 | *Lucida in Collo Serp.* & Cauda β | 58 10 50 | 1393 62 | 58 11 05 |
| | 10 | rep. | 58 10 50 | 1393 65 | 58 11 09 |
| | 18 | *Arcturus* — & Lucida in lumbis δ | 42 38 40 | 1021 49 | 42 39 22 |
| | 20 | rep. | 42 38 40 | 1021 48 | 42 39 21 |
| | 24 | Cauda β | 35 21 40 | 846 89 | 35 22 07 |
| ♀ Jun. 10 | 10 18 | *Spica Virginis* & Cauda β | 35 02 40 | 838 96 | 35 02 18 |
| | 22 | Lucida in lumbis δ | 45 12 30 | 1082 66 | 45 12 35 |
| MDCLXXXII. | | | | | |
| ♀ Apr. 7. | 9 37 | *Arcturus* — & γ | 55 19 25 | 1325 01 | 55 19 38 |
| | 41 | α | 59 46 50 | 1431 79 | 59 46 29 |
| | 44 | rep. | 59 46 45 | 1431 78 | 59 46 27 |
| | 46 | β | 35 21 40 | 846 70 | 35 21 40 |
| ☽ Maij 15. | 9 58 | *Spica Virginis* & α | 54 02 50 | 1294 33 | 54 02 54 |
| | 10 00 | rep. | 54 03 00 | 1294 39 | 54 03 03 |

| Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Virginis.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Apr. 28 | 10 29 | *Cor Leonis* — & —— η | | 837 83 | 34 59 37 |
| | 38 | *Arcturus* —— & —— η | | 833 60 | 34 49 01 |
| ♄ Maij 12 | 10 26 | *Arcturus* —— & —— η | | 833 60 | 34 49 01 |
| | | hujus comes in anteced. ad Auſtrum —— | | 841 43 | 35 08 15 |
| | 38 | —— γ | | 744 82 | 31 06 54 |
| | 46 | —— θ | | 712 03 | 29 44 34 |
| | 55 | —— ζ | | 535 94 | 22 23 04 |
| | 11 07 | *Cauda Leonis* & —— ζ | | 723 25 | 30 12 40 |
| | 16 | —— θ | | 679 49 | 28 23 06 |
| | 24 | —— γ | | 694 78 | 29 01 21 |
| | 34 | —— η | | 408 14 | 17 02 21 |
| ♄ 26 | 10 35 | *Spica Virginis* & —— κ | | 281 45 | 11 45 18 |
| | 40 | *Lanx borea Libræ* & —— κ | | 379 26 | 15 50 06 |
| | 48 | —— λ | | 353 26 | 14 45 03 |
| | 11 25 | *Arcturus* —— & —— λ | | 783 71 | 32 44 13 |
| | 35 | —— κ | | 709 79 | 29 38 57 |
| | 40 | —— ι | | 606 07 | 25 18 57 |
| | 49 | *Lanx borea Libræ* & —— ι | | 371 41 | 15 30 25 |
| MDCLXXIX. | | | | | |
| ☿ Mar. 26 | 10 20 | *Cor Leonis* — & Vindemiatrix —— ε | 42 33 15 | 1019 17 | 42 33 34 |
| | 24 | —— rep. | 42 33 15 | 1019 19 | 42 33 38 |
| MDCLXXX. | | | | | |
| ☉ Jan 7 *vel* ☽ *mane* 8 | 17 34 | *Lucid. in Collo Serpentis* & —— β | 58 26 35 | 1399 89 | 58 26 45 |
| | 40 | —— rep. | 58 26 30 | 1399 86 | 58 26 40 |
| | 44 | —— γ | 46 10 55 | 1106 01 | 46 11 09 |
| | 46 | hanc anteced. teleſcopic. clara | 45 45 45 | *circ.* | |
| | 53 | —— η | 51 27 20 | 1232 32 | 51 27 40 |
| | | —— rep. | 51 27 15 | 1232 29 | 51 27 36 |
| ☉ 27 *vel* ☽ 28 *mane* | 15 00 | *Lucida in Collo Serpentis* & Spica Virginis —— | 38 47 10 | 928 98 | 38 47 30 |
| | 06 | præcedens 2arum infra *g* — | 42 31 20 | 1018 37 | 42 31 33 |
| | 13 | ſequens earundem —— | 41 56 20 | 1004 43 | 41 56 39 |
| | 17 | —— ψ | 45 12 50 | 1082 93 | 45 13 15 |
| | 20 | duarum ad *g* borealior —— | 41 43 40 | 999 28 | 41 43 45 |
| | | duarum ad *g* auſtralior —— | 41 45 20 | 1000 12 | 41 45 51 |
| | | quæ 1½ gr. infra ψ —— | 45 56 10 | 1100 18 | 45 56 31 |
| | 34 | —— *q* | 50 00 25 | 1197 58 | 50 00 37 |
| | | —— χ | 48 17 55 | 1156 76 | 48 18 21 |
| | | —— *f* | 48 20 05 | 1157 57 | 48 20 24 |
| | 51 | —— β | 58 26 25 | 1399 77 | 58 26 27 |
| | 16 02 | *Ped Ophiuchi* & —— α | 42 32 15 | 1018 79 | 42 32 36 |
| | 49 | quæ infra ſpicam —— *i* | 42 22 05 | 1014 80 | 42 22 36 |
| | 53 | hanc ſequens ad Auſtr. —— | 40 32 15 | 971 01 | 40 32 52 |
| | 57 | has ſeq. in recta cum ζ & m | 37 42 10 | 902 96 | 37 42 24 |
| | 17 03 | —— h | 40 31 15 | 970 65 | 40 31 57 |
| | 8 | —— m | 38 15 25 | 916 25 | 38 15 37 |
| | 11 | lucidiſſima ad —— *l* | 40 30 10 | 970 05 | 40 30 27 |
| | | *Fixam quam Bayerus depinxit ad n videre non potui.* | | | |

| ANNO CHRISTI MDCLXXX. Menfe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *VIRGINIS.* | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☉ Jan. 27 vel ☽ 28 *mane* | 17 19 | *Ted Ophiuchi* & ——— ι | 29 33 45 | 707 85 | 29 34 05 |
| | 23 | antecedentium ϰ auftrina | 32 10 40 | 770 19 | 32 10 20 |
| | 25½ | fupra hanc ——— | 32 13 55 | 771 63 | 32 13 55 |
| | 35 | ——— ϰ | 30 49 45 | 738 23 | 30 50 19 |
| ☽ Mar. 29 | 11 19½ | *Spica Virginis* & ——— μ | 20 00 45 | 479 29 | 20 00 46 |
| | 35 | *Arcturus* — & ——— μ | 25 50 30 | 618 74 | 25 50 43 |
| ♂ Apr. 27 | 10 12 | *Lucid. in Collo Serpentis.* } & Vindemiatrix ——— ε | 40 15 05 | 963 77 | 40 14 42 |
| | 17 | Clarior ad ——— ρ | 45 13 40 | 1083 23 | 45 14 00 |
| | 23 | ——— δ | 42 03 05 | 1007 17 | 42 03 30 |
| ♀ Dec. 10 | 15 42 | *Cor Hydræ* — & Vindemiatrix ——— ε | 56 52 20 | 1362 33 | 56 52 54 |
| | 44 | ——— rep. | 56 52 10 | 1362 25 | 56 52 42 |
| | 17 23 | *Cor Hydræ* — & Spica Virginis ——— α | 58 28 15 | 1400 45 | 58 28 09 |
| | 25 | ——— rep. | 58 28 15 | 1400 46 | 58 28 10 |
| ☉ 12 | 17 56 | *Cor Leonis* — & Spica Virginis ——— α | 54 02 00 | 1293 95 | 54 01 57 |
| | 18 01 | ——— rep. | 54 02 05 | 1294 01 | 54 02 06 |
| | 36 | ——— iter. | 54 02 10 | 1294 03 | 54 02 09 |
| | | *Hucufque Regulus altior erat quam Spica.* | | | |
| | 19 03 | ——— inter. | 54 02 30 | 1294 29 | 54 02 48 |
| | 07 | ——— deniq; | 54 02 30 | 1294 24 | 54 02 40 |
| | | *Ultimæ duæ per Miniftros, me abfente.* | | | |
| MDCLXXXI. | | | | | |
| ☉ Jan. 23 vel ☽ 24 *mane.* | 16 56¼ | *Regulus* — & Spica Virginis ——— α | 54 02 25 | 1294 14 | 54 02 25 |
| | 59½ | ——— rep. | 54 02 20 | 1294 11 | 54 02 21 |
| | 17 01¼ | *Med. in Cervice ♌nis η,* } & Spica ——— α | 56 18 40 | 1348 52 | 56 18 24 |
| | 4 | ——— rep. | 56 18 40 | 1348 53 | 56 18 24 |
| | 5¾ | *Lucid. in Juba ♌nis γ,* } & Spica ——— α | 55 08 55 | 1320 78 | 55 09 03 |
| | 7½ | ——— rep. | 55 08 55 | 1320 80 | 55 09 06 |
| | 13¾ | *Ted in Manu Serpentarii* } & Spica ——— α | 42 32 45 | 1018 80 | 42 32 38 |
| | 16 | ——— rep. | 42 32 40 | 1018 76 | 42 32 32 |
| ☿ Mar. 23 | 9 44 | *Lucida Coronæ* & Spica ——— α | 49 12 40 | 1178 48 | 49 12 50 |
| ☽ 28 | 8 29 | *Regulus* — & ——— ω | 22 28 25 | 538 08 | 22 28 30 |
| | 10 15 | ——— ξ | 24 06 05 | 577 23 | 24 06 40 |
| | 20 | ——— A | 24 45 05 | 592 78 | 24 45 38 |
| | 23 | hanc fequens, altera — A | 26 27 10 | 633 45 | 26 27 39 |
| | 26 | ——— o | 28 53 55 | 691 99 | 28 54 21 |
| | 31 | ——— π | 28 13 30 | 675 89 | 28 14 03 |
| | 34 | ——— ν | 24 37 20 | 589 63 | 24 37 44 |
| | 38 | ——— b | 28 48 35 | 689 74 | 28 48 44 |
| | 48 | *Inform. inter Caudas Urfæ Majoris & Leonis* } & ——— ω | 34 15 00 | 820 19 | 34 15 22 |
| | 50 | ——— ξ | 34 01 30 | 814 85 | 34 02 02 |
| | | ——— A | 33 45 50 | 808 56 | 33 46 16 |

| ANNO CHRISTI MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *VIRGINIS.* | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☽ Mar. 28 | 10 57½ | *Informis inter Caudas Urſæ Majoris & Leonis* & | ν | 35 31 10 | 850 68 | 35 31 37 |
| | 11 02 | —Altera— | A | 32 53 00 | 787 37 | 32 53 18 |
| | 6 | | π | 34 04 10 | 815 95 | 34 04 46 |
| | 9 | | b | 36 56 10 | 884 68 | 36 56 40 |
| | 12 | | o | 31 42 40 | 759 51 | 31 43 37 |
| | | *Vide diſtantiam Reguli ab informi, ſub Leonis Conſtellatione, inter Obſervationes Martii 30 hujus Anni.* | | | | |
| ♄ Apr. 2 | 8 50 | *Regulus* — & | π | 28 13 25 | 675 69 | 28 13 33 |
| ☽ 4 | 9 21½ | *In Capite Hydræ 4ta ζ,* & | β | 43 50 10 | 1049 80 | 43 50 18 |
| | 24 | | rep. | 43 50 15 | 1049 84 | 43 50 24 |
| | 30½ | | γ | 56 59 50 | 1365 35 | 57 00 25 |
| | 33 | | rep. | 56 59 50 | 1365 38 | 57 00 30 |
| | 36 | *In Collo Hydræ 1a θ,* & | γ | 52 01 00 | 1245 69 | 52 01 15 |
| | 38½ | | rep. | 52 00 55 | 1245 68 | 52 01 14 |
| | 42 | *3a & minima in Capite Hydræ ρ,* & | η | 53 11 25 | 1273 80 | 53 11 35 |
| | 44 | | rep. | 53 11 20 | 1273 79 | 53 11 34 |
| | 47 | *In Capite Hydræ 2a ε,* & | η | 53 38 20 | 1284 61 | 53 38 36 |
| | 49 | | rep. | 53 38 25 | 1284 61 | 53 38 36 |
| | | *Cœlo valde ſereno & tranquillo diligentèr habitæ Obſervationes Fundamentales.* | | | | |
| | 57½ | *Informis inter Caudas Urſæ Maj. & Leonis.* & | b | 36 56 35 | 884 79 | 36 56 57 |
| | | quæ ſequitur π ad auſtrum | | 34 08 15 | 817 51 | 34 08 40 |
| | 10 05 | quæ ſequitur o ad boream | | 29 37 50 | 709 57 | 29 38 22 |
| | 10 | quæ ſequitur b ad auſtrum | | 37 54 55 | 908 07 | 37 55 10 |
| | 14 | | η | 39 50 30 | 954 51 | 39 51 28 |
| | 16 | | c | 35 55 20 | 860 31 | 35 55 42 |
| | 22 | quæ ſequitur ρ ad auſtrum | | 28 48 45 | 689 98 | 28 49 20 |
| | | Borealior ad | d | 30 43 25 | 735 81 | 30 44 15 |
| | 28 | Auſtrina ad | d | 03 39 30 | 758 26 | 31 40 30 |
| | 31 | Clariſſima ad | ρ | 28 14 50 | 676 43 | 28 15 24 |
| | 39 | *Regulus* — & | ρ | 37 38 30 | 901 52 | 37 38 46 |
| | 43 | quæ ſequitur ρ ad auſtrum | | 38 47 45 | 929 33 | 38 48 22 |
| | | Borealior ad | d | 38 55 25 | 932 35 | 38 55 55 |
| | 47½ | Auſtrina & præced. ad | d | 38 10 40 | 914 43 | 38 11 05 |
| | | quæ ſequitur ρ ad boream | | 30 41 25 | 735 00 | 30 42 14 |
| | 56 | quæ ſequitur π ad auſtrum | | 30 38 40 | 733 93 | 30 39 32 |
| | 11 01 | quæ ſequitur b ad auſtrum | | 31 39 40 | 758 30 | 31 40 36 |
| | | | c | 33 46 50 | 808 94 | 33 47 14 |
| | 7 | | δ | 42 16 00 | 1012 41 | 42 16 37 |
| | 10 | | γ | 40 23 20 | 967 28 | 40 23 30 |
| | 13 | | η | 34 58 55 | 837 80 | 34 59 24 |
| | | | b | 28 48 40 | 689 94 | 28 49 14 |
| | 20 | | β | 27 14 15 | 652 38 | 27 15 09 |

| Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Virginis*. | | Diſtantiæ per lineam diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☽ Apr. 25 | 10 08 | *Lucida in Collo Serpentis* & quæ ſequitur ε ad Auſtr. | | 38 29 50 | 921 89 | 38 29 44 |
| | 12 | quæ ſequitur ε ad boream | | 37 46 00 | 904 27 | 37 45 40 |
| | 15 | has ſequens | e | 36 34 40 | 875 96 | 36 34 51 |
| | 17 | præcedens ad | σ | 36 27 45 | 872 98 | 36 27 24 |
| | 19 | ſequens ad | σ | 35 20 35 | 846 14 | 35 20 15 |
| | 22 | quæ ſupra ζ | ο | 32 30 25 | 778 08 | 32 30 03 |
| | 29 | | ζ | 33 02 25 | 791 12 | 33 02 40 |
| | 33 | | ρ | 28 26 45 | 681 22 | 28 27 24 |
| | 35 | | τ | 26 01 55 | 623 15 | 26 01 46 |
| | 37 | quæ ſequitur τ | | 23 15 50 | 556 85 | 23 15 37 |
| | 44 | *Ted Ophiuchi* & | λ | 30 03 15 | 719 71 | 30 03 46 |
| | 46 | | κ | 30 49 55 | 738 13 | 30 50 05 |
| | 49 | | ι | 29 33 45 | 707 75 | 29 33 50 |
| | 51 | | μ | 22 50 30 | 546 81 | 22 50 25 |
| | 56 | | υ | 28 41 15 | 686 73 | 28 41 12 |
| | 59 | | φ | 26::31 20 | 635 04 | 26 31 37 |
| ♂ 26 | 9 48 | *Lucid. in Collo Serpentis* & ab informi ſub Cauda Urſæ Majoris | | 49 33 25 | 1186 68 | 49 33 21 |
| | 52 | | rep. | 49 33 25 | 1186 70 | 49 33 24 |
| | 10 04 | *Arcturus* — & | κ | 29 38 55 | 710 05 | 29 39 35 |
| | 21 | *Vindemiatrix* & | λ | 30 53 35 | 739 68 | 30 53 58 |
| | 25 | | κ | 27 32 35 | 659 45 | 27 32 52 |
| | | | ι | 24 57 10 | 597 35 | 24 57 05 |
| | 33 | | μ | 30 03 50 | 719 52 | 30 03 18 |
| | 37 | | φ | 25 07 00 | 601 34 | 25 07 05 |
| | 39 | | υ | 23 19 50 | 558 49 | 23 19 44 |
| | | quæ ſequitur τ | | 19 21 00 | 463 48 | 19 21 03 |
| | | | τ | 17 28 40 | 418 70 | 17 28 48 |
| | 53 | | ρ | 18 02 00 | 431 98 | 18 02 06 |
| | 56 | | ζ | 14 06 30 | 337 73 | 14 06 07 |
| | 58 | lucida in Collo Serpentis | | 40 14 30 | 963 87 | 40 14 57 |
| ♄ 30 | 9 40 | *Lucid. in Collo Serpentis* & | γ | 46 11 05 | 1106 08 | 46 11 20 |
| | 47 | | rep. | 46 11 05 | 1106 06 | 46 11 17 |
| | 56 | *Serpentis* ε, — & | β | 60 02 00 | 1438 12 | 60 02 18 |
| | 58 | | rep. | 60 02 05 | 1438 16 | 60 02 24 |
| | 10 01 | *Serpentis* ε, — & | η | 52 54 10 | 1267 16 | 52 54 57 |
| | 03 | | rep. | 52 54 10 | 1267 16 | 52 54 57 |
| | 30 | *Ted Ophiuchi* & Spica | α | 42 32 40 | 1018 95 | 42 33 00 |
| | 33 | | rep. | 42 32 40 | 1018 97 | 42 33 03 |
| | 40 | *Ophiuchi* ι, — & | δ | 60 20 40 | 1445 62 | 60 21 03 |
| | 44 | | rep. | 60 20 50 | 1445 66 | 60 21 09 |
| | 49 | *Regulus* — & Spica | α | 54 02 35 | 1294 35 | 54 02 57 |
| | 52 | | rep. | 54 02 35 | 1294 33 | 54 02 54 |
| ♂ Maii 17 | 9 46 | *Ted Ophiuchi* & | ε | 49 58 25 | 1196 58 | 49 58 06 |
| MDCLXXXII. | | | | | | |
| ♀ Jun. 16 | 10 04 | *Antares* — & Spica | α | 45 54 00 | 1099 21 | 45 54 05 |
| | 19 | | rep. | 45 54 00 | 1099 20 | 45 54 03 |
| Dec. 25 | 18 37 | *Lucida in Lumbis* ♌is δ, — & | β | 20 44 10 | 496 68 | 20 44 35 |
| | 48 | *Vindemiatrix* & eadem | β | 20 02 35 | 480 08 | 20 02 45 |

| Anno Christi MDCLXXXVIII. Mense, Die, Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE VIRGINIS. | Distantiae per lineas diagonales. ° ′ ″ | Distantiae per Cochleae Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Mar. 9 | 9 10 | *Arcturus* — & — β | 39 42 10 | 950 78 | 39 42 07 |
| | 13 | — rep. | 39 42 10 | 950 77 | 39 42 06 |
| | 28 | *Lucida in Lumbis* ♌is & — β | 20 44 20 | 496 64 | 20 44 28 |
| | 31 | — rep. | 20 44 15 | 496 62 | 20 44 25 |
| | 38 | *Arcturus* — & Lucida in Lumbis Leonis — | 42 38 55 | 1021 18 | 42 38 36 |
| | 40 | — rep. | 42 38 50 | 1021 16 | 42 38 33 |

| Anno Christi MDCLXXVII. Mense, Die, Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE LIBRÆ. | Distantiae per lineas diagonales. ° ′ ″ | Distantiae per Cochleae Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♃ Maij 10 | 10 08 | *Spica Virginis* & Lanx borea — β | | 659 71 | 27 33 31 |
| | 16 | Lanx Austrina — α | | 511 89 | 21 22 40 |
| ♂ Jun. 5 | 10 30 | *Arcturus* — & — β | | 776 41 | 32 25 55 |
| | 36 | — α | | 871 75 | 36 24 22 |
| ♂ 19 | 10 15 | *Arcturus* — & — γ | | 941 97 | 39 20 01 |
| | 31 | *Genu praeced. Ophiuchi, ζ,* & — γ | | 374 02 | 15 36 57 |
| ♃ 21 | 10 11 | *Arcturus* — & — θ | | 1037 08 | 43 18 27 |
| | 20 | *Genu praeced. Ophiuchi, ζ,* & — θ | | 292 22 | 12 12 13 |
| MDCLXXVIII. | | | | | |
| ☉ Feb. 10 11 ☽ *mane* | 15 33 | *Genu praeced. Ophiuchi, ζ,* & — α | 26 23 05 | 631 81 | 26 23 30 |
| | 43 | — μ | 26 32 45 | 635 54 | 26 32 50 |
| | 49 | — ν | 22 42 45 | 543 81 | 22 42 46 |
| | | ***Habet ν, comitem ad Austrum simul cum ipsa filum transeuntem.*** | | | |
| | 58 | — γ | 15 36 20 | 373 97 | 15 36 50 |
| | 16 01 | Clarior & Austral ad — η | 13 53 15 | 332 67 | 13 53 27 |
| | 07 | — θ | 12 12 05 | 292 32 | 12 12 33 |
| | 12 | — ζ | 16 48 10 | 402 69 | 16 48 42 |
| | 17 | *Genu sequ. Ophiuchi, η,* & quae hac multo australior praecedit κ — | 23 34 45 | 564 60 | 23 35 03 |
| | | — κ | 21 23 40 | 512 42 | 21 24 00 |
| | 32 | — λ | 18 50 00 | 451::08 | 18 49 43 |
| | 36 | praecedens ad — ι | 28 22 15 | 679 22 | 28 22 25 |
| | 43 | Lucidior duarum ad — ο | 26 17 55 | 629 76 | 26 18 21 |
| | 54 | *Genu prae. Ophiuchi, ζ,* & — δ | 23 47 00 | 569 53 | 23 47 25 |
| | 17 01 | — ε | 17 56 05 | 429 52 | 17 55 57 |
| MDCLXXX. | | | | | |
| ☽ Feb. 9 | 17 09 | *Cauda Leonis* & Lanx borea — β | 56 48 05 | 1360 47 | 56 48 15 |
| | 16 | Lanx Austrina — α | 54 18 35 | 1300 56 | 54 18 28 |

| ANNO CHRISTI MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE LIBRÆ. | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♀ Apr. 29 | 10 53 | *Arcturus*, — & Lanx borea ——— | β | 32 25 25 | 776 07 | 32 25 01 |
| | 11 01 | ——— | μ | 34 28 35 | 825 40 | 34 28 24 |
| | 4 | Lanx auſtrina ——— | α | 36 24 00 | 871 48 | 36 23 39 |
| | 9 | clarior & borea ad —— | ν | 37 42 00 | 902 69 | 37 41 43 |
| | 12 | auſtralis & minor ad —— | ν | 37 56 20 | 908 32 | 37 55 48 |
| | 19 | ——— | δ | 29 58 50 | 717 77 | 29 58 54 |
| | | ——— | ε | 34 04 45 | 815 91 | 34 04 40 |
| | 29 | ſequentium hanc borea —— | | 34 27 05 | 824 80 | 34 26 54 |
| | | ——— auſtrina | | 35 06 45 | 840 70 | 35 06 39 |
| | 38 | ——— | γ | 39 20 00 | 941 85 | 39 19 13 |
| | | clarior & auſtralior ad — | ν | 41 09 10 | 985 59 | 41 09 25 |
| | 55 | ——— | θ | 43 20 50 | 1037 76 | 43 20 07 |
| | 12 04 | ——— | λ | 46 07 35 | 1104 45 | 46 07 13 |
| | | ——— | κ | 44 19 00 | 1061 33 | 44 19 10 |
| | | ſequens & lucidior ad — | ζ | 40 48 50 | 977 59 | 40 49 21 |
| | 28 | ——— | ι | 41 28 10 | 993 06 | 41 28 09 |
| ♄ 30 | 11 02 | *Caput Ophiuchi* & Lanx Auſtrina ——— | α | 49 36 25 | 1188 21 | 49 37 10 |
| | | ——— | μ | 48 56 05 | 1171 96 | 48 56 50 |
| | 9 | ——— | δ | 43 39 20 | 1045 61 | 43 39 48 |
| | 12 | Lanx borea ——— | β | 40 39 30 | 974 06 | 40 40 30 |
| | 15 | ——— | ε | 39 41 10 | 950 75 | 39 42 03 |
| | 17 | duar. ſequentium. ε auſtrina | | 37 34 00 | 899 74 | 37 34 20 |
| | 19 | ——— borea | | 36 58 50 | 885 75 | 36 59 21 |
| ☽ Maij 9 | 10 33 | *Arcturus* — & duarum antecedent. κ ad Auſtrum borealior — | | 43 16 40 | 1036 11 | 43 16 00 |
| | | harum auſtral. & minor | | 44 00 40 | 1053 88 | 44 00 31 |
| | 43 | quæ juxta κ antecedit — ad boream ——— | | 43 38 25 | 1044 90 | 43 38 02 |
| | 49 | ——— | κ | 44 18 50 | 1061 29 | 44 19 03 |
| | 55 | ——— | ο | 38 22 25 | 918 83 | 38 22 05 |
| | 11 06 | *Caput Ophiuchi* & antecedens auſtralis — & lucidiſſima ad — | ο | 43 26 40 | 1040 48 | 43 26 57 |
| | 15 | ſeq. & lucidiſſ. $3^{ium}$ ad | ζ | 42 06 20 | 1008 53 | 42 06 54 |
| | 18 | media borealior ad —— | ζ | 42 26 40 | 1016 38 | 42 26 35 |
| | 21 | hanc quæ præced. ad auſtr. | | 42 51 00 | 1026 31 | 42 51 27 |
| | 24 | quæ antecedit κ ad auſtrum | | 44 05 40 | 1056 10 | 44 06 05 |
| | 28 | quæ juxta κ anteced. ad bor. | | 42 47 20 | 1024 84 | 42 47 45 |
| | 30 | ——— | κ | 42 33 20 | 1019 30 | 42 33 52 |
| | 33 | $2^{arum}$ anteced. κ ad auſtrum Auſtralior & minor — | | 44 34 40 | 1067 75 | 44 35 13 |
| | | borealior & lucidior ——— | | 44 05 20 | 1056 03 | 44 05 54 |
| | 40 | ——— | λ | 41 09 30 | 985 97 | 41 10 22 |
| | 44 | ——— | θ | 38 30 00 | 922 27 | 38 30 40 |
| | 46 | clarior & auſtral. ad — | ν | 39 20 50 | 942 43 | 39 21 10 |
| | 48 | ——— | γ | 40 16 30 | 964 60 | 40 16 48 |
| | 51 | lucidior ad ——— | ι | 47 43 35 | 1143 09 | 47 44 05 |
| | 54 | Auſtral. & minor ad — | ν | 46 42 45 | 1118 81 | 46 43 15 |
| | 57 | borealis & lucidior ad — | ν | 46 36 45 | 1116 42 | 46 37 15 |
| | 12 05 | *Arcturus* — & antecedens trium ad — | ζ | 40 11 10 | 962 24 | 40 10 52 |
| | 11 | media ad ——— | ζ | 40 22 00 | 966 43 | 40 21 22 |
| | | ſequens & lucidiſſima ad | ζ | 40 49 00 | 977 65 | 40 49 30 |
| | 18 | ——— | ο | 38 22 30 | 918 90 | 38 22 15 |
| ♂ 10 | 10 57 | *Arcturus* — & quæ ſupra θ, eſt ——— | | 41 58 40 | 1005 15 | 41 58 27 |
| | 11 03 | Auſt. min. præc. 4 hanc in □ ad bor. ſequent. | $1^{a}$ | 42 14 50 | 1011 33 | 42 13 55 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE LIBRÆ. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|
| ♂ Maij 10 | 11 03 | *Arcturus* — & hanc quæ sequitur — 2ª | 42 35 20 | 1019 76 | 42 35 02 |
| | | præcedentium borealis & lucidissima — 3ª | 40 40 45 | 974 42 | 40 41 17 |
| | 13 | sequens borealior — 4ª | 40 59 50 | 981 67 | 40 59 35 |
| | 17 | duarum supra has anteced. | 39 56 20 | 956 36 | 39 56 07 |
| | 20 | — sequens | 40 24 10 | 967 30 | 40 23 33 |
| | 26 | præced. & austr. 2arum ad ξ | 32 39 10 | 781 59 | 32 38 50 |
| | 29 | sequens & borea ad — ξ | 32 21 35 | 774 59 | 32 21 20 |
| | 35 | *Caput Ophiuchi* & præced. duarum ad — ξ | 46 43 20 | 1119 02 | 46 43 46 |
| | 38 | sequens & borea | 45 58 40 | 1101 19 | 45 59 03 |
| | | quæ supra θ | 35 58 10 | 861 43 | 35 58 30 |
| | 46 | in □ supra hanc — 1ª | 33 18 05 | 797 38 | 33 18 20 |
| | 48 | — 2ª | 31 36 45 | 757 14 | 31 37 40 |
| | 50 | lucidissima — 3ª | 32 49 35 | 786 03 | 32 49 57 |
| | | — 4ª | 30 35 25 | 732 53 | 30 36 00 |
| | | 2arum has ad bor. seq. anteced. | 29 28 35 | 705 93 | 29 29 15 |
| | 56 | — sequens | 28 43 35 | 687 93 | 28 44 12 |
| | | quæ sequitur θ | 37 15 30 | 892 30 | 37 15 44 |
| | 12 07 | *Arcturus* — & quæ sequitur θ | 44 05 20 | 1055 74 | 44 05 10 |
| | 11½ | Caput Ophiuchi | 48 06 15 | 1152 13 | 48 06 45 |
| | 14 | — rep. | 48 06 15 | 1152 13 | 48 06 45 |
| MDCLXXXII. | | | | | |
| ☿ Maij 15 | 10 25 | *Spica Virginis* & Lanx borea — β | 27 33 00 | 659 73 | 27 33 35 |

| Anno Christi MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE SCORPII. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ' " |
|---|---|---|---|---|---|
| ♀ Maij 18. | 11 09 | *Spica Virginis* & — β | | 945 05 | 39 27 43 |
| | 16 | — ν | | 981 08 | 40 58 06 |
| | 23 | inferior contiguar. ad — ω | | 959 10 | 40 03 00 |
| | | superior & præcedens | | 955 26 | 39 53 21 |
| ♃ 23 | 10 07 | *Ped Ophiuchi* & — π | | 543 56 | 22 42 10 |
| | 14 | — δ | | 460 36 | 19 13 10 |
| | 21 | infer. & seq. duarum ad ω | | 413 28 | 17 15 13 |
| | 25 | Earum superior & præced. | | 408 95 | 17 04 22 |
| | 31 | — β | | 389 35 | 16 15 18 |
| | 39 | — ν | | 377 88 | 15 46 39 |
| | 53 | *Genu sequens Ophiuchi, η,* & — τ | | 354 27 | 14 47 36 |
| | 58 | — rep. | | 354 25 | 14 47 33 |
| | 11 00 | Antares — α | | 342 95 | 14 19 13 |
| | 6 | — σ | | 361 96 | 15 06 45 |
| | 19 | *Spica Virginis* & — ν | | 980 87 | 40 57 34 |
| | 24 | superior contiguar. ad ω | | 955 25 | 39 53 19 |
| | 29 | harum inferior & sequens | | 959 11 | 40 03 01 |
| | 34 | — β | | 945 08 | 39 27 48 |
| | 41 | — δ | | 926 00 | 38 42 21 |
| | 49 | — π | | 937 77 | 39 09 30 |
| | 55 | — ρ | | 949 52 | 39 38 57 |
| | 12 05 | *Lanx Austrina Libræ* & — σ | | 553 43 | 23 07 04 |
| | 8 | — α | | 601 27 | 25 08 03 |
| | 17 | — τ | | 648 68 | 27 05 54 |

| ANNO CHRISTI MDCLXXVII. Mense, Die, Styl. Vet. | Temp. App. H. | M. | IN CONSTELLATIONE SCORPII. | Distantia per lineas diagonales. ° | ' | " | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. | Cent. | ° | ' | " |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ♄ Maij 26 | 10 | 57 | *Spica Virginis* & Ophiuchi Yed | | | | 1018 | 92 | 42 | 32 | 57 |
| | 11 | 11 | *Lanx Austrina Libræ* & Genu seq. Ophiuchi ν | | | | 801 | 85 | 33 | 29 | 34 |
| ☿ 30 | 11 | 10 | *Lanx Austrina Libræ* & trium supra σ, borealis | | | | 561 | 19 | 23 | 26 | 30 |
| | | 18 | que præced. inter hanc & σ | | | | 539 | 75 | 22 | 32 | 37 |
| | | 28 | has sequens supra Antaren | | | | 596 | 05 | 24 | 53 | 52 |
| | 12 | 07 | *Quæ post Coxas Ophiuchi, Serpentis, ν* & quæ supra Antaren | | | | 409 | 37 | 17 | 05 | 25 |
| | | 12 | trium supra σ præcedens | | | | 435 | 29 | 18 | 10 | 34 |
| | | 17 | harum borea | | | | 403 | 18 | 16 | 49 | 58 |
| | | 57 | *Yed Ophiuchi* & quæ post Coxas, *Serpentis* ν | | | | 450 | 46 | 18 | 48 | 25 |
| MDCLXXIX. | | | | | | | | | | | |
| ☽ Jun. 2 | 9 | 24 | *Lucida Aquilæ* & α | 60 | 11 | 30 | 1441 | 77 | 60 | 11 | 27 |
| | 10 | 10 | *Spica Virginis* & β | 39 | 27 | 55 | 944 | 97 | 39 | 27 | 35 |
| | | 21 | ν | 40 | 57 | 45 | 980 | 91 | 40 | 57 | 42 |
| | | 24 | duarum ad ω borealior | 39 | 52 | 55 | 955 | 20 | 39 | 53 | 12 |
| | | 29 | duarum ad ω australior | 40 | 02 | 40 | 958 | 99 | 40 | 02 | 43 |
| | | 34 | δ | 38 | 42 | 15 | 926 | 82 | 38 | 42 | 09 |
| | | 53 | α | 45 | 54 | 00 | 1099 | 45 | 45 | 54 | 50 |
| ☿ 25 | 10 | 17 | *Inferior & lucidior in Humero præced. Ophiuchi, κ* & π | 38 | 12 | 15 | 915 | 16 | 38 | 12 | 55 |
| | | 32 | δ | 34 | 54 | 10 | 836 | 08 | 34 | 55 | 15 |
| | | 35½ | β | 31 | 52 | 10 | 763 | 14 | 31 | 52 | 42 |
| | | | duarum ad ω borealior | 32 | 31 | 10 | 778 | 71 | 32 | 31 | 42 |
| | | | Australior duarum ad ω | 32 | 38 | 30 | 781 | 74 | 32 | 39 | 18 |
| | | | σ | 36 | 01 | 00 | 862 | 69 | 36 | 01 | 40 |
| | | | trium supra σ præced. | 34 | 41 | 20 | 830 | 92 | 34 | 42 | 18 |
| | | | harum borea | 33 | 42 | 05 | 807 | 80 | 33 | 42 | 34 |
| | 11 | 03 | quæ supra Antaren | 35 | 04 | 15 | 840 | 02 | 35 | 04 | 57 |
| | | 9 | Antares α | 36 | 23 | 10 | 871 | 48 | 36 | 23 | 42 |
| | | | τ | 37 | 51 | 45 | 906 | 87 | 37 | 52 | 10 |
| MDCLXXXI. | | | | | | | | | | | |
| ♄ Maij 28 | 10 | 47 | *Spica Virginis* & π | 39 | 08 | 50 | 937 | 39 | 39 | 08 | 33 |
| | | 52 | b | 37 | 21 | 40 | 894 | 64 | 37 | 21 | 35 |
| | | 55 | A | 37 | 48 | 30 | 905 | 23 | 37 | 48 | 05 |
| | 11 | 00 | ρ | 39 | 38 | 10 | 949 | 42 | 39 | 38 | 44 |
| | | | *Forsan non erat ρ sed alia in Consequen.* | | | | | | | | |
| | | 07 | duarum ad o austrina | 36 | 09 | 40 | 865 | 75 | 36 | 09 | 20 |
| | | 11 | borea | 35 | 11 | 30 | 842 | 45 | 35 | 11 | 01 |
| | | | quæ has præced. in recta cum π & austr. | 32 | 18 | 25 | 773 | 18 | 32 | 17 | 48 |
| | | 20 | γ | 27 | 18 | 55 | 653 | 92 | 27 | 19 | 00 |
| | | 31 | antecedens ad c | 42 | 30 | 40 | 1017 | 97 | 42 | 30 | 33 |
| | | 34 | sequens ad c | 43 | 58 | 00 | 1052 | 70 | 43 | 57 | 33 |
| | | 36 | σ | 43 | 56 | 25 | 1052 | 12 | 43 | 56 | 06 |
| | | 39 | Antares α | 45 | 53 | 30 | 1099 | 15 | 45 | 53 | 55 |
| | | 43 | τ | 47 | 38 | 55 | 1140 | 94 | 47 | 38 | 42 |
| | | 46 | quæ supra Antaren | 45 | 51 | 10 | 1098 | 16 | 45 | 51 | 27 |

| Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SCORPII.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Maij 28 | 11 49 | *Spica Virginis* & inter hanc & quæ ſupra σ eſt ad boream —— | 44 33 40 | 1067 22 | 44 33 54 |
| | | quæ ſupra σ —— | 43 33 30 | 1043 04 | 43 33 21 |
| ♂ 31 | 10 46 | *Ophiuchi Ted* & quæ ſequitur γ vel antecedit o —— | 29 34 25 | 708 26 | 29 35 06 |
| | 48 | —— γ | 27::22 15 | 655 44 | 27 22 50 |
| | 52 | Auſtrina ad o —— | 27::21 15 | 655 23 | 27 22 18 |
| | 11 04 | Borea ad o —— | 25 57 35 | 621 72 | 25 58 12 |
| | 8 | —— ρ | 25 47 40 | 617 93 | 25 48 42 |
| | 13 | —— π | 22 41 40 | 543 53 | 22 42 12 |
| | 18 | —— b | 22 43 30 | 544 29 | 22 44 06 |
| | 21 | —— A | 22 10 10 | 530 96 | 22 10 37 |
| | 25 | *In Humero Ophiuchi præcedente, auſtrina, κ,* — & ſequens ad c —— | 39 05 40 | 936 44 | 39 06 09 |
| | | & præcedens ad c —— | 38 49 00 | 929 92 | 38 49 51 |
| ☽ Jun. 6 | 11 06 | *Ophiuchi Ted* & Scorpii —— ε | 31 35 25 | 756 25 | 31 35 27 |
| | 13 | *Humerus I*[us] σ & eadem —— ε | 27 58 15 | 669 70 | 27 58 33 |
| | 20 | *Ophiuchi Ted* & Sagittarii —— σ | 44 35 40 | 1067 97 | 44 35 46 |

| Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SAGITTARII.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Jun. 28 | 10 30 | *Hum. Aquarii præced.* & — *ξ —— ξ | | 966 32 | 40 21 06 |
| | | *Hæc habet duas ſat. lucid. propinquas* harum auſtr. & præcedens — | | 965 32 | 40 18 36 |
| | 41 | *o* o | | 934 28 | 39 00 45 |
| | 45 | —— π | | 901 69 | 37 39 18 |
| | 54 | —— d | | 843 82 | 35 14 28 |
| | | *Hæc habet plurimas parvas circumjacentes ad morem nebuloſæ.* | | | |
| | 58 | —— ρ | | 813 86 | 33 59 40 |
| | 11 05 | —— υ | | 801 34 | 33 28 16 |
| ♀ 6 | 11 09 | *Penultima in Cauda Serpentis Ophiuchi, η,* & —— ξ | | 485 35 | 20 15 57 |
| | 15 | —— o | | 517 07 | 21 35 39 |
| | 32 | —— π | | 517 93 | 21 37 48 |
| ☽ 16 | 9 19 | *Antares* —— & —— λ | | 637 28 | 26 37 10 |
| | 25 | —— σ | | 779 54 | 32 33 46 |
| | 30 | —— φ | | 726 22 | 30 20 06 |
| | 35 | —— τ | | 835 94 | 34 54 54 |
| | 39 | —— ζ | | 809 05 | 33 47 38 |
| | 46 | —— δ | | 593 06 | 24 46 22 |
| | 54 | —— γ | | 515 58 | 21 31 55 |
| | 10 06 | —— ε | | 619 58 | 25 52 50 |

| ANNO CHRISTI MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SAGITTARII.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Julij 16 | 10 43 | *Sequens & lucidior in Cauda* ♑ & ——— ψ | | 872 63 | 36 25 34 |
| | 50 | ——— χ | | 817 88 | 34 09 37 |
| | | *χ habet contiguam ad boream.* | | | |
| | 55 | Australior & lucidior ad *b* | | 757 77 | 31 39 15 |
| ♀ 20 | 10 00 | *Lucidior & sequens in Cauda* ♑ & ——— σ | | 984 03 | 41 05 30 |
| | 4 | *Præcedens in Cauda* ♑ & ——— σ | | 942 10 | 39 20 21 |
| | 10 | *Lucidior & sequens in Cauda* ♑ & ——— ψ | | 872 60 | 36 26 30 |
| | 16 | ——— χ | | 817 86 | 34 09 35 |
| | 23 | quæ supra χ ad dist. 30′ cir. | | 815 07 | 34 02 34 |
| | 28 | præced. bor. & minor ad H | | 760 63 | 31 46 31 |
| | 32 | Australior & lucidior ad H | | 757 74 | 31 39 16 |
| | 44 | *In Tibia Aquarii* δ & in Terebrello præced. — ω | | 1025 18 | 42 48 40 |
| | 49 | hanc sequens ——— A | | 1008 03 | 42 05 39 |
| | 53 | inferiorum præcedens — *b* | | 1020 84 | 42 37 45 |
| | 11 06 | Australissima sequens — *c* | | 992 35 | 41 26 21 |
| | 15 | *Lucida in Cauda* ♑ & ——— μ | | 1210 20 | 50 32 15 |
| | 19 | huic propinqua in Conseq. | | 1202 70 | 50 13 28 |
| | 30 | ——— *f* | | 691 02 | 28 52 01 |
| | 35 | Borealissima trium ad — *e* | | 710 44 | 29 40 36 |
| | 38 | hanc præced. ad austrum — | | 714 92 | 29 51 49 |
| | 44 | harum Australiss. in anteced. | | 724 94 | 30 16 54 |
| | 49 | ——— *g* | | 627 42 | 26 12 28 |
| ☽ Julij 23 | 10 04 | *Ultima Capitis* ♐, π & in Nebulosa antecedente Arcum ——— A | | 377 68 | 15 46 09 |
| | 11 | *Lucida in Cauda* ♑ & ——— μ | | 1210 14 | 50 32 06 |
| | 17 | *Sequens humerus Sagittarii,* σ & nebulosæ dicta ——— A | | 287 74 | 12 01 00 |
| | | quæ in anteced. nebulosæ *k* | | 306 63 | 12 48 21 |
| | 21 | *Caput Ophiuchi* & in Nebulosa ——— A | | 896 66 | 37 26 40 |
| | 30 | hanc præcedens ——— *k* | | 882 40 | 36 51 04 |
| ☽ Aug. 20 | *Vesp.* | *Sequentes cepi distantias Fixarum Nebulosam constituentium in Antecedentia Arcus Sagittarij, breviori Tubo,* | *scilicet* | Ab 4540 | = 37 19 |
| | | | | bc 3965 | = 32 31 |
| | | | | Ac 5410 | = 44 29 |
| | | | | bd 2925 | = 24 03 |
| | | | | ed 2137 | = 17 34 |
| | | | | Ad 1750 | = 14 23 |
| | 9 15 | *Fixula* A & e *in eadem ferè fuere Altitudine.* | | | |

| ANNO CHRISTI MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE SAGITTARII. | Distantiæ per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutione & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Aug. 22 | | Longiori Tubo observatæ Distantiæ. *N. B.* distantia fixæ *g* ab exigua infra ipsam est dimidia *d f*. Recta per *Aq* producta media transit inter *b* & *e*. | | be 3363 | = 16 47 |
| | | | | ed 3533 | = 17 38 |
| | | | | ef 3472 | = 17 19 |
| | | | | ec 3437 | = 17 15 |
| | | | | eg 1976 | = 9 52 |
| | | | | df 605 | = 3 01 |
| | | | | Aq 627 | = 3 08 |
| | | | | Ad 2987 | = 14 36 |
| | | | | Ah 4003 | = 19 58 |
| | | | | hd 2437 | = 12 09 |
| | | | *Tubo brev.* | Ak 6035 | = 49 37 |
| ♀ Sept. 7 | 8 25 | *Os Pegasi* — & ultima in Capite —— π | | 1170 84 | 48 53 39 |
| MDCLXXVIII. | | | | | |
| ☽ Junij 17 | 11 48 | *Antares* —— & humerus —— σ | 32 33 10 | 779 35 | 32 33 20 |
| | 57 | *Aquilæ lucida* & —— σ | 37 31 50 | 898 91 | 37 32 15 |
| MDCLXXIX. | | | | | |
| ♄ Junij 28 | 10 23 | *Australis lucidior in Cauda Vulturis* & —— ε | 49 04 10 | 1175 32 | 49 04 55 |
| | 39 | —— δ | 44 53 55 | 1075 78 | 44 55 21 |
| | | —— γ | 46 27 40 | 1112 85 | 46 28 16 |
| | | —— λ | 40 16 25 | 964 75 | 40 17 10 |
| | | in Nebulosa ante Arcum A | 41 03 30 | 983 59 | 41 04 24 |
| | 11 01 | hanc præcedens —— k | 40 54 25 | 980 16 | 40 55 50 |
| | | —— μ | 37 07 45 | 889 37 | 37 08 25 |
| | | —— σ | 40 10 55 | 962 62 | 40 11 50 |
| | 7 | —— τ | 41 27 00 | 993 04 | 41 28 04 |
| | | —— ζ | 43 40 15 | 1046 06 | 43 40 57 |
| | 26 | —— φ | 41 05 15 | 984 29 | 41 06 07 |
| ♃ Sept. 18 | 8 31 | *Sequens & lucidior in Cauda Capricorni* & exigua supra ultimam in Capite π, ad boream | 37 50 25 | 906 25 | 37 50 37 |
| | 52 | Australior duarum anteced. | 39 04 15 | 935 72 | 39 04 20 |
| | | harum Borealior —— | 39 03 45 | 935 53 | 39 03 53 |
| | | *Ultima in Cauda Serpentis Ophiuchi* & harum Australior —— | 23 27 35 | 561 65 | 23 27 29 |
| | | —— Borealior | 23 19 05 | 558 23 | 23 19 04 |
| | 9 34 circiter | quæ supra π ad boream —— | 23 37 25 | 565 61 | 23 37 35 |
| ♂ 23 | 8 00 | *Succedens ab Effusione aquæ Aquarij,* λ, & —— π | 55 20 50 | 1325 61 | 55 21 09 |
| | | —— rep. | 55 20 35 | 1325 53 | 55 20 55 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SAGITTARII.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♂ Aug. 3 | 9 20 | *Cor Scorpii* — & Auſtrina in arcu ——— | ε | 25 52 50 | 619 75 | 25 53 15 |
| | 24 | *Auſtr. Frontis Scorpii, δ,* } & eadem ——— | ε | 33 30 30 | 802 15 | 33 30 15 |
| | 36 | *Caput Ophiuchi* —— } & eadem ——— | ε | 48 11 50 | 1154 23 | 48 12 00 |
| MDCLXXXI. | | | | | | |
| ☽ Jun. 6 | 11 20 | *Ophiuchi Ted* & ——— | σ | 44 35 40 | 1067 97 | 44 35 46 |
| ☽ Julij 4 | 10 04 | *Cor Scorpii* — & ——— | σ | 32 33 35 | 779 40 | 32 33 21 |
| | 8 | ——— | φ | 30 19 40 | 726 12 | 30 19 54 |
| | 13 | ——— | τ | 34 57 10 | 836 81 | 34 56 55 |
| | | ——— | ζ | 33 47 30 | 808 93 | 33 47 12 |
| | 20 | ——— | λ | 26 37 00 | 637 22 | 26 37 06 |
| | 24 | lucida & Auſtralis ad — | γ | 21 31 40 | 515 42 | 21 31 35 |
| | 29 | Borealior & minor ——— | | 21 18 05 | 510 04 | 21 18 05 |
| | 32 | ——— | δ | 24 46 00 | 592 95 | 24 46 03 |
| | 35 | ——— | ε | 25 52 10 | 619 38 | 25 52 20 |
| | 45½ | *Seq. in Caud.* ♑ & quæ præcedit ♆ exigua ——— | | 37 02 10 | 886 76 | 37 01 52 |
| | 48 | Auſtralior ad χ ——— | | 34 09 30 | 817 74 | 34 09 15 |
| | | Borealior ad χ ——— | | 34 02 00 | 804 88 | 34 02 06 |
| | 53 | duarum ad *b* lucidior ——— | | 31 38 45 | 757 75 | 31 39 12 |
| | 11 02 | ——— | ♆ | 36 26 20 | 872 47 | 36 26 07 |
| | 8 | præcedens ad ν ——— | | 41 07 25 | 984 86 | 41 07 35 |
| | 10 | ſequens ad ν ——— | | 40 54 30 | 979 79 | 40 54 52 |
| | 14 | ſequens ad ξ ——— | | 40 17 30 | 964 71 | 40 17 05 |
| | 17 | quæ ſupra ξ ——— | | 40 23 20 | 966 96 | 40 22 42 |
| | 20 | ——— | ο | 38 40 55 | 926 20 | 38 40 31 |
| | 22 | ——— | π | 37 28 45 | 897 37 | 37 28 24 |
| | 27 | ——— | *d* | 35 38 20 | 853 27 | 35 38 06 |
| | 29 | ——— | ρ | 34 43 20 | 831 23 | 34 42 59 |
| | 32 | ——— | υ | 34 50 20 | 834 11 | 34 50 10 |
| | 34½ | borea trium ad *e* ——— | *p* | 29 40 30 | 710 29 | 29 40 10 |
| | 36 | duar. ad *e* infra hanc ſeq. | *o* | 29 51 15 | 714 63 | 29 51 03 |
| | 40 | ——— præced. — | *n* | 30 16 15 | 724 70 | 30 16 20 |
| | 42 | ——— | *g* | 26 12 10 | 627 30 | 26 12 12 |
| | 45 | ——— | *f* | 28 51 30 | 690 80 | 28 51 22 |

| Anno Christi MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CAPRICORNI.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Julij 21 | 9 30 | *Seq. Humerus Aquarii* } & Teleſcopica anteced. contiguas in Cornu ♑ | | | 710 21 | 29 40 01 |
| | 35 | contiguar. in Cornu præced. | | | 704 94 | 29 26 48 |
| | 37 | contiguar. ſeq. Auſtral lucid. | | | 703 14 | 29 22 18 |
| | 42 | ——— | ν | | 691 00 | 28 51 57 |
| | 10 03 | ——— | β | | 709 87 | 29 39 10 |
| | | *Seq. & Lucid. in Cauda Capricorni* } & ——— | ρ | | 448 73 | 18 44 04 |
| | 13 | ——— | π | | 458 17 | 19 07 42 |
| | 20 | ——— | ο | | 444 25 | 18 32 51 |
| | | ο *conſtat è duabus propinquis contiguis.* | | | | |

| ANNO CHRISTI MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CAPRICORNI.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Julij 21 | 10 25 | *Seq. & Lucid. in Cauda Capricorni* — & — σ | | 504 41 | 21 03 55 |
| | 30 | — υ | | 385 90 | 16 06 40 |
| | 40 | — τ | | 391 35 | 16 20 19 |
| ☽ 23 | 10 56 | *In Effusione aquæ Aquarii succedens* λ, — & *Capricorni* — θ | | 663 94 | 27 44 08 |
| | 11 01 | — ι | | 572 47 | 23 54 48 |
| | 08 | hanc præced. ad Austr. — | | 605 12 | 25 16 34 |
| | 15 | *Australis in dextra Tibia Aquarii* δ, — & — φ | | 574 12 | 23 58 55 |
| | 20 | austral. & lucid. $2^{arum}$ ad χ | | 614 92 | 25 41 07 |
| | 24 | harum borealior — | | 607 90 | 25 23 31 |
| | 28 | — η | | 634 68 | 26 30 40 |
| | 31 | — ε | | 451 12 | 18 50 04 |
| | 34 | — κ | | 418 27 | 17 27 43 |
| | 38 | contig. $2^{arum}$ præc. ε, boreal. | | 465 58 | 19 26 15 |
| | 42 | — ζ | | 521 52 | 21 46 50 |
| | 45 | — b | | 507 46 | 21 11 34 |
| ☿ Aug. 15 | 9 07 | *In Effusione aquæ Aquarii succedens* λ, — & — μ | | 377 93 | 15 46 46 |
| | 13 | — γ | | 476 91 | 19 54 40 |
| | 10 28 | — rep. | | 476 82 | 19 54 27 |
| | | — δ | | 435 25 | 18 10 18 |
| | 57 | *Humer. Aquarii præced.* β, — & in aquæ — λ | | 484 49 | 20 13 48 |
| | 11 06½ | — θ | | 316 90 | 13 14 00 |
| ♃ 16 | 11 07 | *Humer. præcedens Aquarii* — & — θ | | 316 90 | 13 14 00 |
| ♄ 18 | 9 06 | *Ultima Capitis Sagittarii,* π, — & — θ | | 662 28 | 27 39 58 |
| | 14 | — ι | | 755 56 | 31 33 48 |
| | 21 | quæ præcedit ι ad Austrum | | 725 84 | 30 19 09 |
| | 27 | quæ præcedit ι ad Boream | | 729 02 | 30 27 06 |
| | 43 | Australior duarum ad — κ | | 860 02 | 35 55 06 |
| | 48 | Borealior & lucidior ad — κ | | 859 69 | 35 54 10 |
| | 9 54 | *Media Capitis Sagittarii,* ο, — & — ε | | 853 83 | 35 39 34 |
| | | — rep. | | 853 79 | 35 39 28 |
| | | — κ | | 859 70 | 35 54 18 |
| | 10 20 | *Ultima Capitis Sagittarii,* π, — & — ε | | 826 35 | 34 30 51 |

| ANNO CHRISTI MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE CAPRICORNI. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Aug. 18 | 10 27 | *Auſtralis in Tibia* ♒, δ, & ——— ε | | 451 35 | 18 50 38 |
| | 32 | quæ præcedit ——— ε | | 465 77 | 19 26 43 |
| ♀ 31 | 9 02 | *Auſtralis in Cornu* ♑¹, β, & parvularum trium ſupra Caudam auſtraliſſima | | 480 50 | 20 03 48 |
| | 6 | harum media ——— | | 474 52 | 19 48 40 |
| | | earum borealis & lucidiſſima | | 467 64 | 19 31 25 |
| | 53 | auſtraliſſima rep. ——— | | 480 45 | 20 03 40 |
| | 10 10 | *Sequens humerus* ♒ & dictarum 3ium auſtralis — | | 368 65 | 15 23 30 |
| | 13 | ——— media | | 362 94 | 15 09 10 |
| | 16 | lucidiſſima & borealis ——— | | 357 95 | 14 56 50 |
| | | *Tubo deinde longiore & Micrometro, Diſtantiæ captæ, inter* | | | |
| | | Auſtraliſſimam & ——— | | 5025 = | 25′ 04″ |
| | | mediam & lucidiſſimam — | | 6319 = | 31 31 |
| ♀ Sept. 7 | 7 53 | *Os Pegaſi* — & ——— ι | | 652 04 | 27 14 18 |
| | 8 00 | quæ præced. ι ad auſtrum | | 684 28 | 28 35 06 |
| | 14 | quæ præced. ι ad boream | | 622 63 | 26 00 28 |
| | 20 | ultima in Capite ♐ —— π | | 1170 84 | 48 53 39 |
| | 9 38 | *Succedens in Effuſione Aquæ Aquarii, λ,* & in ſuperiori parte Caudæ ♑ —— λ | | 400 78 | 16 43 57 |
| | 50 | Lucidiſſ. 3ium ad c, & præc. | | 402 40 | 16 48 01 |
| ☽ 10 | 9 00 | *Os Pegaſi* — & lucidiſſima præced. ad — c | | 453 92 | 18 57 06 |
| | | *Aquilæ lucida* & borealis duarum ad —— λ | | 842 59 | 35 11 24 |
| | | *Tubo breviore.* | | | |
| | | λ ab ejus comite Auſtraliore | | 2310 = | 19′ 00″ |
| | | c ab ejus comite lucidiore | | 2630 = | 21 18 |
| **MDCLXXIX.** | | | | | |
| ☿ Julii 23 | | *Aquilæ lucida* & Teleſcopica præced. contig. | 22 05 55 | 529 18 | 22 06 09 |
| | | contiguar. præced. & boreal. | 22 21 45 | 535 44 | 22 21 50 |
| | | ſeq. & auſtrina contiguarum | 22 25 45 | 536 99 | 22 25 42 |
| | 11 45 | ——— ν | 22 50 15 | 546 78 | 22 50 15 |
| | 52 | ——— β | 24 46 15 | 593 06 | 24 46 22 |
| | | Humerus Aquarii ſequens | 34 52 50 | 835 23 | 34 52 59 |
| ☽ 28 | 10 08 | *Lucida Aquilæ* & ——— ο | 29 03 00 | 695 42 | 29 02 57 |
| | | ——— π | 28 31 20 | 682 45 | 28 30 32 |
| | 25 | ——— ρ | 28 15 05 | 676 34 | 28 15 12 |
| | | *ρ habet exiguam ad auſtr. ipſi contig.* | | | |
| | 35 | ——— σ | 28 49 15 | 689 88 | 28 49 09 |
| | 45 | ——— υ | 29 35 15 | 708 27 | 29 35 09 |
| | 52 | ——— τ | 26 39 10 | 638 11 | 26 39 16 |
| ☿ Aug. 20 | 9 17 | *Seq. Humerus Aquarii,* & Auſtralis duarum ad — ξ | 30 40 45 | 734 57 | 30 41 06 |
| | | Borealis & minor ad —— ξ | 30 41 35 | 735 16 | 30 42 34 |
| | | Contig. in Cornu præc. bor. | 29 26 45 | 705 08 | 29 27 09 |
| | | Contig. ſeq. lucid. auſtralior | 29 22 20 | 703 36 | 29 22 51 |
| | 35 | ——— ν | 28 52 15 | 691 20 | 28 52 23 |
| | | ——— β | 29 39 15 | 710 02 | 29 39 30 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE CAPRICORNI. | | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. | Cent. | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☿ Aug. 20 | 9 35 | *Sequens in Cauda ♑i* & ejusdem ——— | σ | 21 | 03 | 50 | 504 | 41 | 21 | 03 | 56 |
| | | anteced. & austrina ad — | π | 19 | 07 | 30 | 458 | 14 | 19 | 07 | 37 |
| | | ——— | ρ | 18 | 44 | 15 | 448 | 80 | 18 | 44 | 15 |
| | 49 | ——— | ο | 18 | 32 | 40 | 444 | 20 | 18 | 32 | 44 |
| | | ——— | υ | 16 | 06 | 20 | 385 | 77 | 16 | 06 | 21 |
| | | ——— | τ | 16 | 20 | 20 | 391 | 37 | 16 | 20 | 22 |
| | 10 04 | *Succedens in Effusione Aquæ ♒ii, λ,* & ——— | θ | 27 | 43 | 25 | 663 | 85 | 27 | 43 | 54 |
| | | ——— | ι | 23 | 54 | 10 | 572 | 45 | 23 | 54 | 43 |
| | | hanc præced. ad austrum — | | 25 | 16 | 15 | 605 | 12 | 25 | 16 | 33 |
| | 20 | *Australis in Tibia ♒ii, δ,* & ——— | φ | 23 | 58 | 55 | 574 | 16 | 23 | 59 | 00 |
| | | ——— | χ | 25 | 41 | 00 | 614 | 99 | 25 | 41 | 18 |
| | | Austr. 2arum 30′ ab hac dist. | | 25 | 23 | 20 | 607 | 94 | 25 | 23 | 37 |
| | 30 | ——— | ν | 26 | 30 | 50 | 634 | 79 | 26 | 31 | 00 |
| | | ——— | b | 21 | 11 | 10 | 507 | 34 | 21 | 11 | 16 |
| | | ——— | ζ | 21 | 46 | 45 | 521 | 50 | 21 | 46 | 52 |
| ♀ 22 | 9 08 | *Succedens in Effusione Aquæ ♒ii λ,* & ——— | γ | 19 | 54 | 00 | 476 | 77 | 19 | 54 | 28 |
| | | ——— | δ | 18 | 10 | 00 | 435 | 17 | 18 | 10 | 06 |
| | 19 | *Quæ in Tibia Aquarii, δ,* & ——— | ω | 30 | 33 | 55 | 731 | 87 | 30 | 34 | 15 |
| | | ——— | A | 26 | 44 | 40 | 640 | 37 | 26 | 44 | 56 |
| | | ——— | ψ | 31 | 26 | 40 | 752 | 83 | 31 | 26 | 57 |
| | 36 | ——— | ε | 18 | 49 | 50 | 450 | 98 | 18 | 49 | 44 |
| | | 2arum anteced. ε, ad austr. bor. | | 19 | 26 | 00 | 465 | 48 | 19 | 26 | 00 |
| | | ——— | κ | 17 | 27 | 20 | 418 | 11 | 17 | 27 | 20 |
| | 9 55 | *Succedens in Aqua ♒ii λ,* & ——— | μ | 15 | 46 | 10 | 377 | 85 | 15 | 46 | 34 |
| | | borealior & lucidior ad — | λ | 16 | 43 | 30 | 400 | 67 | 16 | 43 | 40 |
| | 10 24 | ——— | c | 16 | 47 | 40 | 402 | 21 | 16 | 47 | 33 |
| | 26 | *Os Pegasi* — & succedens in Effusione aquæ Aquarii — | λ | 24 | 23 | 00 | 583 | 83 | 24 | 23 | 13 |
| | 35 | borealior ad ——— | λ | 21 | 13 | 50 | 508 | 59 | 21 | 14 | 24 |
| | | ——— | c | 18 | 56 | 30 | 523 | 90 | 18 | 57 | 00 |
| | 11 07 | ——— | μ | 23 | 31 | 05 | 563 | 05 | 23 | 31 | 10 |
| ♄ 23 | | *Aquilæ lucida* & ——— | ω | 38 | 39 | 30 | 925 | 80 | 38 | 39 | 36 |
| | | ——— | ψ | 36 | 37 | 40 | 877 | 15 | 36 | 37 | 54 |
| | 9 40 | ——— | A | 38 | 35 | 20 | 924 | 15 | 38 | 35 | 27 |
| | 49 | ——— | χ | 35 | 34 | 40 | 851 | 93 | 35 | 34 | 48 |
| | | ——— | φ | 36 | 07 | 15 | 864 | 87 | 36 | 06 | 54 |
| | 10 03 | ——— | ν | 33 | 56 | 20 | 812 | 53 | 33 | 56 | 14 |
| | | ——— | ζ | 39 | 05 | 30 | 936 | 12 | 39 | 05 | 21 |
| | 13 | ——— | b | 38 | 55 | 45 | 932 | 22 | 38 | 55 | 33 |
| | | quæ præced. ι ad austr. | | 34 | 24 | 10 | 823 | 63 | 34 | 24 | 01 |
| | | ——— | ι | 34 | 13 | 40 | 819 | 46 | 34 | 13 | 34 |
| | 30 | ——— | θ | 32 | 01 | 00 | 766 | 44 | 32 | 00 | 57 |
| ♃ Sep. 18 | 9 34 | *Aquilæ lucida* & ——— | γ | 38 | 05 | 10 | 911 | 97 | 38 | 04 | 55 |
| | | ——— | δ | 37 | 10 | 45 | 890 | 15 | 37 | 10 | 22 |
| | | 2arum contig. juxta ε, boreal. | | 38 | 38 | 35 | 925 | 41 | 38 | 38 | 36 |
| | | ——— | ε | 38 | 34 | 15 | 923 | 71 | 38 | 34 | 21 |
| | | ——— | κ | 39 | 05 | 45 | 936 | 36 | 39 | 06 | 00 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CAPRICORNI.* | Distantiæ per lineas diagonales. ° ' '' | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ' '' |
|---|---|---|---|---|---|
| ☽ Oct. 11 | 9 25 | *Aquilæ lucida* & sequens humerus Aquarij | 34 52 55 | 835 44 | 34 53 30 |
| | 29 | —— γ | 37 10 30 | 890 09 | 37 10 12 |
| | 31 | —— δ | 38 05 05 | 911 97 | 38 04 55 |
| | 36 | succed. in Aqua Aquarij λ | 48 13 20 | 1155 02 | 48 14 00 |
| ♄ Oct. 16 | 7 14½ | *Succedens in Effus. Aquæ Aquarij, λ,* & —— θ | 27 43 35 | 664 15 | 27 44 39 |
| | 19 | —— ι | 23 54 55 | 572 52 | 23 54 52 |
| | 22 | exigua infra ι antecedens | 25 14 55 | 605 13 | 25 16 35 |
| | 30 | —— ε | 21 49 25 | 522 81 | 21 50 09 |
| | 32 | —— κ | 20 23 25 | 488 62 | 20 24 16 |
| | 35 | exigua antecedens —— ε | 22 35 25 | 541 04 | 22 35 57 |
| | 38 | —— γ | 19 53 45 | 476 88 | 19 54 42 |
| | 40 | —— δ | 18 10 05 | 435 36 | 18 10 22 |
| | 54 | *Aquilæ lucida* & —— θ | 32 01 00 | 766 43 | 32 00 55 |
| | 57 | —— ι | 34 13 40 | 819 48 | 34 13 36 |
| | 8 00 | —— ε | 38 34 00 | 923 63 | 38 34 06 |
| | 3 | exigua antecedens —— ε | 38 37 40 | 925 39 | 38 38 30 |
| | 7 | —— κ | 39 05 55 | 936 29 | 39 05 47 |
| | 8½ | —— γ | 37 10 35 | 890 06 | 37 10 07 |
| | 11 | —— δ | 38 05 05 | 911 95 | 38 04 52 |
| | 17 | succed. in Effus. aquæ ♒ λ | 48 13 15 | 1154 86 | 48 13 34 |
| | 21 | exigua infra ι in antecedentia —— | 34 24 10 | 823 63 | 34 23 58 |

| Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *AQUARII.* | Distantiæ per lineas diagonales. ° ' '' | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' '' |
|---|---|---|---|---|---|
| ♃ Nov. 16 | 6 06 | *Nodus Lini Piscium,* & præcedens trium in Effusione aquæ ad † | | 1031 85 | 43 05 21 |
| | | sequens & media ad —— † | | 1020 13 | 42 35 58 |
| | | Australissima ad —— † | | 1016 77 | 42 27 33 |
| | | —— rep. | | 1016 91 | 42 27 54 |
| | | —— φ | | 1024 65 | 42 47 19 |
| | | —— χ | | 1013 04 | 42 18 13 |
| | | —— ω | | 1085 92 | 45 20 45 |
| | | —— λ | | 1158 20 | 48 21 57 |
| | | —— κ | | 1233 23 | 51 29 58 |
| | | *Markab Pegasi* & media ad —— † | | 588 82 | 24 35 43 |
| | | —— iterum | | 588 73 | 24 35 30 |
| | | præced. & borealis ad —— † | | 585 04 | 24 26 15 |
| | | australissima —— | | 599 82 | 25 03 16 |
| MDCLXXVII. | | | | | |
| ♃ Aug. 16 | 12 57 | *Humerus Aquarii præcedens, β,* & ejusdem —— φ | | 611 98 | 25 33 45 |
| | | præcedens trium ad —— † | | 624 15 | 25 04 16 |
| | | media sequens ad —— † | | 636 88 | 26 36 10 |
| | | Australissima ad —— † | | 644 22 | 26 54 36 |

| ANNO CHRISTI MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE AQUARII. | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Aug. 18 | 10 44 | *Auſtralis trium in Cornu Capricorni* & ——— | ι | | 611 55 | 25 32 40 |
| | | hanc quæ ſequitur ad Auſt. | a | | 645 76 | 26 58 27 |
| | 58 | duarum hanc ad bor. ſequentium borea — | b | | 674 26 | 28 10 00 |
| | 11 03 | harum Auſtralis ——— | c | | 685 69 | 28 38 37 |
| | 10 | *Lucidior Contig. in Cornu Capricorni* & ——— | e | | 659 32 | 27 32 33 |
| ♂ 28 | 8 51 | *Extrema Alæ Pegaſi* — & ——— | β | | 1080 01 | 45 05 55 |
| | 57 | ——— | α | | 840 26 | 35 05 33 |
| | 9 00 | ——— | γ | | 770 62 | 32 11 25 |
| | 05 | ——— | η | | 684 99 | 28 36 52 |
| | 22 | ——— | ζ | | 717 05 | 29 57 10 |
| | 26 | ——— | π | | 718 10 | 29 59 48 |
| ♀ Sept. 7 | 8 35 | *Sequens Humer. Aquarii, α,* — & ——— | ι | | 324 34 | 13 32 39 |
| | 46 | *In manu ſequente Aquarii, media, ζ,* — & ——— | e | | 296 77 | 12 23 34 |
| | | duar. hanc ad Auſt. ſeq. bor. | b | | 314 75 | 13 08 37 |
| | | harum auſtralis ——— | c | | 323 08 | 13 29 30 |
| | 9 07 | quæ ſequitur ι ad Auſtrum. | | | 352 74 | 14 43 45 |
| | 21 | *Quæ in Effuſione aquæ Aquarii, λ,* & ——— | ν | | 614 77 | 25 40 47 |
| | 27 | ultima trium in recta cum ν & ξ, media fere inter ipſas | | | 532 41 | 22 14 13 |
| | 9 33 | quæ hanc ſequitur ad Auſt. | p | | 519 73 | 21 42 24 |
| | 10 01 | ——— | ξ | | 444 50 | 18 33 28 |
| ☽ 10 | 8 59 | *Os Pegaſi* — & ——— | ν | | 548 61 | 22 54 51 |
| | | auſtraliſſima illarum 4 quæ mediæ in recta inter ν & ξ, ——— | p | | 482 94 | 20 09 55 |
| | | hanc præcedens ——— | l | | 476 53 | 19 53 43 |
| | | ——— | ξ | | 426 26 | 17 47 46 |
| ♀ 14 | 8 18 | *Media lucid. in nexu boreo lini Piſcium, n,* & ——— | χ | | 970 81 | 40 32 21 |
| | 24 | k* ——— | φ | | 961 00 | 40 07 46 |
| | 28 | quæ ſequitur φ ad boream | n | | 924 20 | 38 35 34 |
| | 34 | quæ hac auſtralior ——— | i | | 927 38 | 38 43 33 |
| | 38 | quæ his borealior ——— | k | | 922 16 | 38 30 28 |
| | 48 | ——— | b | | 1028 40 | 42 56 43 |
| | 9 00 | *n *φ ——— * * | θ | | 1280 52 | 53 28 25 |
| | 04 | ——— *h ——— | ρ | | 1268 82:: | 52 44 06 |
| | 10 | *i ——— | σ | | 1239 90 | 51 46 42 |

| Anno Christi MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *AQUARII.* | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Sept. 15 | 8 44 | Distantia inter duas ad σ; minore Tubo, &c. | | 2350 = | 19′ 19″ |
| | | præcedentes ad ——— b | | 2103 = | 17 17 |
| | | Australem & sequent. ad b | | 2920 = | 24 00 |
| ☽ 17 | 10 26 | *Media in Nexu boreo lini Piscium, n,* ——— & ——— x | | 1130 95 | 47 13 42 |
| ♂ Dec. 4 | 8 08 | *Markab Pegasi* ——— & præced. trium ad ——— ψ | | 585 00 | 24 26 09 |
| | 15 | media & sequens ad ——— ψ | | 588 74 | 24 35 31 |
| | 19 | Australissima ad ——— ψ | | 599 66 | 25 02 53 |
| ♂ 11 | 6 40 | *Nodus Lini Pisci-um,* ——— & præcedens trium ad ——— ψ | | 1031 88 | 43 05 24 |
| | 44 | media, & sequens ad ——— ψ | | 1020 18 | 42 36 06 |
| | 46 | Australissima ad ——— ψ | | 1016 74 | 42 27 28 |
| | 54½ | *Os Pegasi,* — & ——— λ | | 584 06 | 24 23 48 |
| | 59½ | ——— rep. | | 584 12 | 24 23 57 |
| MDCLXXIX. | | | | | |
| ♀ Aug. 22 | 10 24 | *In Effusione aquæ Aquarii succedens, λ,* & ——— ξ | 18 33 25 | 444 47 | 18 33 24 |
| | 56 | *Os Pegasi* — & ——— λ | 24 23 00 | 583 83 | 24 23 12 |
| | | ——— ξ | 17 47 00 | 426 15 | 17 47 30 |
| ♂ Sept. 23 | 7 40 | *Prima Arietis, γ,* — & ——— λ | 52 01 20 | 1245 71 | 52 01 18 |
| | | ——— rep. | 52 01 40 | 1245 82 | 52 01 34 |
| | | ——— iter. | 52 01 20 | 1245 71 | 52 01 18 |
| ♄ Oct. 18 | 8 43 | *Media in Ventre Ceti, τ,* & infima ad ——— c | 37 50 00 | 905 89 | 37 49 44 |
| | | media ad ——— c | 37 00 10 | 886 03 | 37 00 03 |
| | 52 | suprema ad ——— c | 37 03 40 | 887 46 | 37 03 37 |
| | | præced. trium ad ——— b | 33 51 40 | 810 72 | 33 51 40 |
| | | media ad ——— b | 33 10 10 | 794 00 | 33 09 52 |
| | 9 14 | ultima ad ——— b | 31 29 40 | 753 97 | 31 29 45 |
| | 20 | precedens trium ad A duplicium australior vere ——— | 29 28 10 | 705 55 | 29 28 18 |
| | | harum clarior & borealis — | 29 25 55 | 704 54 | 29 25 48 |
| | | has quæ sequitur ——— | 28 51 10 | 690 64 | 28 51 00 |
| | 33 | media ad A, has sequens— | 28 26 20 | 680 70 | 28 26 06 |
| | | ultima ad A ——— | 27 09 20 | 650 24 | 27 09 48 |
| | | sequens & lucidior ad — ω | 30 10 40 | 722 51 | 30 10 50 |
| | | antecedens ad ——— ω | 30 51 10 | 738 74 | 30 51 36 |
| | 58 | quæ infra sequentem. ——— | 29 23 30 | 703 75 | 29 23 49 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *AQUARII.* | Distantiæ per lineas diagonales ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Oct. 18 | 10 18 | *In Effusione aquæ Aquarii succedens, λ,* & Ceti ——— τ | 42 51 55 | 1026 45 | 42 51 48 |
| | 30 | *Lucida Arietis,* — & in Ventre Ceti dicta — τ | 39 50 00 | 954 25 | 39 50 50 |
| | | *Ad determinandum locum fixæ in Ventre Ceti, τ,* | | | |
| ☽ 20 | 7 01 | *Lucidior Contiguar. in Cornu Capricorni, α,* — & in manu sequente ——— ζ | 34 44 40 | 832 09 | 34 45 07 |
| | 10 | *Aquilæ lucida,* — & eadem ——— ζ | 40 22 00 | 966 67 | 40 21 59 |
| | 27 | *Os Pegasi* — & ——— ζ | 14 51 50 | 356 13 | 14 52 10 |
| ☿ 22 | 7 49 | *Nodus Lini Piscium.* — & Aquarii ——— ι | 60 42 20 | 1454 19 | 60 42 28 |
| | 53 | quæ sequitur ι ad Austr. | 59 21 00 | 1421 49 | 59 20 45 |
| | 56 | hanc sequens ad Bor. —— b | 58 01 35 | 1389 89 | 58 01 45 |
| | 8 01 | ——— e | 59 16 25 | 1419 73 | 59 16 21 |
| | 6 | ——— σ | 54 17 30 | 1300 10 | 54 17 20 |
| | 15 | ——— θ | 57 09 05 | 1368 98 | 57 09 30 |
| | | ——— ρ | 56 19 50 | 1349 10 | 56 19 51 |
| | 34 | ——— λ | 48 21 55 | 1158 30 | 48 22 13 |
| | | ——— b | 45 45 35 | 1095 93 | 45 45 53 |
| | 59 | ——— φ | 42 47 15 | 1024 72 | 42 47 27 |
| | 9 06 | ——— κ | 51 30 35 | 1233 55 | 51 30 46 |
| ♀ 24 | 6 53 | *Os Pegasi* — & ——— ι | 24 21 55 | 583 35 | 24 22 00 |
| | | ——— rep. melius | 24 21 40 | 583 24 | 24 21 44 |
| | 7 02 | quæ sequitur ι ad Austrum a | 25 03 25 | 599 79 | 25 03 12 |
| | | hanc sequens ad c ——— | 24 43 45 | 592 24 | 24 44 16 |
| | 22 | huic adjacens ad Bor. — b | 24 05 50 | 576 90 | 24 05 51 |
| | 26 | ——— e | 22 25 25 | 536 79 | 22 25 16 |
| | | clarior ad ——— σ | 23 34 20 | 564 35 | 23 34 24 |
| | 42 | exigua seq. & adjacens —— | 23 53 00 | 571 83 | 23 53 09 |
| | 50 | antecedens τ ad Austrum | 28 38 30 | 685 67 | 28 38 16 |
| | 54 | ——— τ | 28 31 35 | 682 81 | 28 31 32 |
| | 8 02 | ——— δ | 31 03 10 | 743 29 | 31 03 03 |
| | 6 | quæ in recta inter τ & — b | 27 32 10 | 659 23 | 27 32 20 |
| | 17 | exigua ½ gr. ab hac ad Aust. | 28 04 35 | 672 19 | 28 04 48 |
| | 28 | *Nodus Lini Piscium,* — & quæ in recta inter τ & — b | 49 01 35 | 1174 04 | 49 01 44 |
| | | exigua ½ gr. ab hac ad Aust. | 49 00 45 | 1173 73 | 49 00 57 |
| | 41 | ——— τ | 50 26 05 | 1207 81 | 50 26 15 |
| | 43 | antecedens τ ad Austrum—— | 51 00 20 | 1221 47 | 51 00 30 |
| | 47 | ——— δ | 49 53 30 | 1194 80 | 49 53 40 |

| ANNO CHRISTI MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *AQUARII.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Oct. 24 | 9 17 | *Os Pegasi* — & ——— θ | 19 25 55 | 465 37 | 19 25 48 |
| | 25 | ——— ρ | 19 50 15 | 475 11 | 19 50 16 |
| | 30 | ——— λ | 24 23 35 | 584 04 | 24 23 45 |
| ♂ 28 | 8 46 | *Media in Ventre Ceti, τ,* & quæ sub ψ in recta per ipsam & φ ——— | 35 17 10 | 844 79 | 35 16 54 |
| | 56 | quæ infra hanc in Conseq. | 34 12 00 | 818 78 | 34 11 51 |
| ♂ Nov. 11 | 7 03 | *Caput Andromedæ* & ——— λ | 40 57 45 | 981 03 | 40 57 58 |
| | 6 | ——— rep. | 40 57 45 | 981 06 | 40 58 03 |
| ☽ 17 | 5 54 | *Cauda Cygni* & Humerus præcedens ——— β | 52 03 50 | 1246 75 | 52 03 54 |
| | 6 02 | sequens Humerus ——— α | 49 16 00 | 1179 71 | 49 15 54 |
| | 17 | *Os Pegasi* — & ——— γ | 14 37 00 | 350 12 | 14 37 10 |
| | 24 | ——— η | 16 10 55 | 387 59 | 16 10 52 |
| | 32 | ——— π | 13 17 55 | 318 44 | 13 17 50 |
| | 44 | ——— b | 26 44 00 | 640 04 | 26 44 10 |
| | 50 | comes hujus australior — q | 27 01 15 | 646 98 | 27 01 40 |
| | 54 | ——— χ | 29 01 20 | 694 76 | 29 01 18 |
| | 58½ | ——— φ | 27 30 45 | 658 71 | 27 31 01 |
| | 7 02 | ——— u | 28 02 50 | 671 43 | 28 02 54 |
| | 6 | ——— i | 28 45 30 | 688 40 | 28 45 22 |
| | 10 | ——— k | 26 24 00 | 632 08 | 26 24 12 |
| | 26 | *Pegasi, sequens duarum in pectore, μ,* & Fomalhaut ——— | 54 08 10 | 1296 45 | 54 08 12 |
| | 35 | *Markab Pegasi* & trium ad c infima ——— | 38 54 35 | 931 78 | 38 54 30 |
| | 46 | ——— media | 37 39 05 | 901 47 | 37 38 40 |
| | 50 | ——— ultima | 36 23 40 | 870 96 | 36 22 21 |
| | 56 | præcedens trium ad ——— b | 35 33 35 | 851 41 | 35 33 27 |
| | 59 | hanc sequens ad ——— b | 36 12 05 | 866 75 | 36 11 50 |
| | 8 03 | ultima ad ——— b | 36 46 05 | 880 37 | 36 45 54 |
| | 09 | inferior duarum in recta cum φ & ψ ipsis mediar. | 30 33 25 | 731 51 | 30 33 27 |
| | 15 | harum superior ——— | 28 51 50 | 690 85 | 28 51 30 |
| | 20 | contiguarum ad A præcedens clarior & Boreal. | 34 14 25 | 819 75 | 34 14 17 |
| | 25 | contig. har. austr. & minor | 34 26 05 | 824 35 | 34 25 47 |
| | 28 | has quæ sequitur ad A ——— | 34 50 45 | 834 28 | 34 50 36 |
| | 31 | sequens sive media ad A — | 35 21 20 | 846 46 | 35 21 03 |
| | 36 | ultima ad A ——— | 35 58 30 | 861 26 | 35 58 05 |
| | 44 | præcedens ad ——— ω | 30 39 45 | 734 03 | 30 39 47 |
| | 48 | sequens ad ——— ω | 31 11 00 | 745 41 | 31 10 50 |
| | 55 | infra hanc austrina ad ω | 32 02 00 | 766 75 | 32 01 45 |
| | 9 01 | *Sequens Humerus ♒ii* & ejusdem ——— δ | 19 38 05 | 470 26 | 19 38 05 |
| | 6 | ——— τ | 17 08 10 | 410 53 | 17 08 20 |
| | 11 | antecedens τ ad Austrum — | 17 12 30 | 412 25 | 17 12 39 |
| | 19 | quæ in recta inter τ & — b | 16 22 15 | 392 14 | 16 22 16 |
| | 24 | exigua ½ gr. ab hâc ad Austr. | 16 51 40 | 403 85 | 16 51 36 |
| ♂ 18 | 6 16 | *Cauda Cygni* & præced. in Capite ad — d | 44 52 40 | 1074 91 | 44 53 10 |
| | 24 | sequens in Capite ——— | 44 58 25 | 1076 98 | 44 58 20 |
| | | Australis infra præcedent. | 45 58 50 | 1101 07 | 45 58 45 |

| Anno Christi MDCLXXIX. Mense, Dic. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE AQUARII. | | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. | Cent. | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ♂ Nov. 18 | 6 24 | *Os Pegasi* — & ——— | υ | 32 | 58 | 10 | 789 | 19 | 32 | 57 | 50 |
| | 58 | clarior, borealior, & præcedens ad ——— | g | 32 | 13 | 00 | 771 | 08 | 32 | 12 | 33 |
| | 7 04 | inferior minor, & seq. ad | g | 33 | 20 | 05 | 797 | 94 | 33 | 19 | 44 |
| | | N.B. *quod nulla fixa ad f, nudis oculis conspici potuit, ubi tamen Tycho posuit aliquam sextæ lucis.* | | | | | | | | | |
| | 15 | *Aquilæ lucida* & Australis in Capite ad — | d | 28 | 45 | 50 | 688 | 61 | 28 | 45 | 54 |
| | | præcedens in Capite ad— | d | 27 | 53 | 35 | 668 | 00 | 27 | 54 | 18 |
| ♂ Dec. 9 | 5 22 | *Lucida Australis in Cauda Aquilæ* & ——— | β | 41 | 08 | 00 | 985 | 29 | 41 | 08 | 39 |
| | 28 | *In Cauda Aquilæ Borealis* & Humerus præcedens —— | β | 42 | 55 | 40 | 1028 | 05 | 42 | 55 | 48 |
| ♀ 12 | 5 41 | *Media in Ventre Ceti, τ* & Borealis ad ——— | g | 43 | 11 | 20 | 1034 | 24 | 43 | 11 | 18 |
| | 47 | inferior minor & seq. ad | g | 42 | 11 | 45 | 1010 | 63 | 42 | 12 | 10 |
| | 6 28 | ——— | υ | 45 | 11 | 00 | 1082 | 16 | 45 | 11 | 20 |
| MDCLXXX. | | | | | | | | | | | |
| ♄ Oct. 16 | 8 32 | *Media in Ventre Ceti τ* & antecedens duarum præcedent. υ, in sura | | 49 | 55 | 10 | 1195 | 31 | 49 | 54 | 55 |
| | 35 | harum sequens ——— | | 48 | 11 | 10 | 1154 | 01 | 48 | 11 | 27 |
| ♂ Nov. 2 | 6 32 | *Os Pegasi* — & anteced. duarum præced. υ, in sura Aquarii | | 31 | 47 | 50 | 761 | 26 | 31 | 48 | 00 |
| | 41 | harum sequens ——— | | 32 | 45 | 20 | 784 | 03 | 32 | 44 | 57 |
| ♄ 6 | 7 14 | *Aquilæ lucida* & præced. in Capite ad —— | d | 27 | 52 | 55 | 667 | 78 | 27 | 53 | 45 |
| | 22 | Australis infra præced. & minor ——— | | 28 | 46 | 15 | 688 | 96 | 28 | 46 | 46 |
| | 28 | sequens in Capite ——— | | 29 | 38 | 15 | 709 | 79 | 29 | 38 | 55 |
| | 36 | *Scheat Pegasi* & in Capite ad *d* præcedens bor. lucid. ——— | | 32 | 42 | 15 | 783 | 18 | 32 | 42 | 48 |
| | 41 | Australis infra præcedent. | | 33 | 07 | 15 | 793 | 23 | 33 | 07 | 57 |
| | 44 | sequens in Capite ——— | | 31 | 15 | 05 | 748 | 50 | 31 | 16 | 05 |
| MDCLXXXII. | | | | | | | | | | | |
| ☽ Oct. 23 | 7 27 | *Nodus Lini Piscium,* & ——— | κ | 51 | 30 | 20 | 1233 | 30 | 51 | 30 | 09 |
| | 34 | ——— | λ | 48 | 21 | 50 | 1158 | 13 | 48 | 21 | 48 |
| | 36½ | ——— | b | 45 | 20 | 20 | 1085 | 84 | 45 | 20 | 33 |
| | 39½ | ——— | φ | 42 | 47 | 15 | 1024 | 51 | 42 | 46 | 55 |
| | 43 | ——— | χ | 42 | 30 | 45 | 1017 | 94 | 42 | 30 | 33 |
| | 49 | præcedens trium ad — | ψ | 43 | 05 | 35 | 1031 | 80 | 43 | 05 | 12 |
| | 52 | media ad ——— | ψ | 42 | 36 | 05 | 1020 | 11 | 42 | 35 | 55 |
| | 56 | Australis ad ——— | ψ | 42 | 27 | 45 | 1016 | 77 | 42 | 27 | 33 |
| | 8 08 | *Markab Pegasi* & Borea trium ad ——— | ψ | 24 | 26 | 15 | 585 | 06 | 24 | 26 | 16 |
| | 14 | media ——— — ad | ψ | 24 | 35 | 45 | 588 | 77 | 24 | 35 | 35 |
| | 18 | australis — — ad | ψ | 25 | 03 | 25 | 599 | 78 | 25 | 03 | 10 |

| Anno Christi MDCLXXXII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *AQUARII.* | Distantiae per lineas diagonales. ° ′ ″ | Distantiae per Cochleae Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Nov. 7 | 6 47 | *Humer.* ♒ii *praecedens* & Borea praecedens ad — ψ | 26 04 05 | 624 00 | 26 03 54 |
| | 52 | & media — ad — ψ | 26 36 05 | 636 84 | 26 36 09 |
| | 55 | & Australis — ad — ψ | 26 54 10 | 644 14 | 26 54 28 |
| | 7 09 | *Algenib Pegasi* & — β | 45 05 45 | 1080 03 | 45 05 58 |
| | 12 | — α | 35 05 35 | 840 35 | 35 05 46 |
| | 15 | — γ | 32 11 55 | 770 71 | 32 11 38 |
| | 17 | — η | 28 37 00 | 685 16 | 28 37 15 |
| | 19½ | — ζ | 29 57 00 | 717 12 | 29 57 16 |
| | 21 | — π | 30 00 05 | 718 34 | 30 00 21 |
| ♀ 10 | 6 28 | *Inferior in Cornu* ♑i, β & — ι | 25 32 25 | 611 50 | 25 32 35 |
| | 35 | quae hanc seq. ad Austrum— | 26 58 25 | 645 71 | 26 58 24 |
| | 38 | 2arum hanc ad Boream seq. Australis — | 28 37 55 | 685 52 | 28 38 09 |
| | 43 | harum Borea — | 28 09 30 | 674 21 | 28 09 51 |
| | 47 | — e | 26 51 15 | 643 03 | 26 51 44 |
| | 54 | *Seq. Contig. in Cornu* ♑i & — e | 27 31 30 | 659 10 | 27 32 00 |
| | 7 03 | *Aquarij*, ζ, — & ejusdem — ε | 12 23 00 | 296 73 | 12 23 30 |
| | 7 | — ι | 14 53 35 | 356 83 | 14 53 54 |
| | 12 | hanc quae sequitur ad Austr. | 14 43 25 | 352 71 | 14 43 36 |
| | 15 | duarum hanc ad Bor. seq. Borealis — | 13 08 30 | 314 70 | 13 08 28 |
| | 19 | harum Austrina— | 13 29 35 | 323 24 | 13 29 51 |
| ☽ 23 | 5 59 | *Aquarij* λ — & ejusdem — ε | 30 56 40 | 740 72 | 30 56 36 |
| | 6 03 | — μ | 29 42 30 | 711 13 | 29 42 16 |
| | 5 | hanc sequens ad Austr. exig. | 28 40 10 | 686 44 | 28 40 27 |
| | 8 | — ν | 25 40 50 | 614 90 | 25 41 06 |
| | 13 | ult. trium contig. in recta cum ν & ξ — | 22 14 30 | 532 43 | 22 14 18 |
| | 17 | quae hanc seq. ad Austrum | 21 42 40 | 519 84 | 21 42 42 |
| | 20 | — ξ | 18 33 45 | 444 57 | 18 33 38 |
| MDCLXXXV. | | | | | |
| ☿ Oct. 21 | 8 35 | *Aquilae lucida* & Humerus sequens — | 34 53 05 | 835 18 | 34 52 51 |
| | 38 | — rep. | 34 53 00 | 835 17 | 34 52 50 |
| | 41½ | *Lyrae lucida* — & idem Humerus — | 61 41 25 | 1477 97 | 61 42 00 |
| | 47 | *Seq. Manus Antinoi* & idem — | 28 37 05 | 685 25 | 28 37 28 |

| Anno Christi MDCLXXVI. Menfe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PISCIUM.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Sept. 29 | 8 20 | *Lucida Arietis* & —— β | | 1157 56 | 48 20 21 |
| | | —— *b* | | 1053 34 | 43 59 10 |
| | | —— θ | | 1001 91 | 41 50 19 |
| | | —— γ | | 1096 14 | 45 46 22 |
| | 9 05 | —— A | | 1152 86 | 48 08 34 |
| | | —— ι | | 949 27 | 39 38 18 |
| | | —— ω | | 835 14 | 34 52 54 |
| | | —— λ | | 987 74 | 41 14 48 |
| | | —— κ | | 1070 13 | 44 41 15 |
| | | quæ præcedit A —— | | 1235 66 | 51 36 03 |
| | | *Lucida Plejadum* & —— δ | | 1096 61 | 45 47 33 |
| | | —— ε | | 1017 28 | 42 28 51 |
| ☽ Oct. 23 | | *Nodus Lini Piſcium* & inferiorum in ☐ ſub Piſce præcedente, præced. | | 747 88 | 31 14 33 |
| | 9 circiter | inferiorum ſequens —— | | 726 59 | 30 21 00 |
| | | ſuperiorum præcedens —— | | 753 16 | 31 27 46 |
| | | ſuperiorum ſequens —— | | 732 35 | 30 35 25 |
| ☿ 25 | 8 circiter | *Lucida Plejadum* & —— η | | 792 06 | 33 05 01 |
| | | —— π | | 792 30 | 33 05 37 |
| ♄ Nov. 18 | 7 53 | *Extrema Alæ Pegaſi* & inferiorum in ☐ ſub Piſce præced. præcedens | | 512 06 | 21 23 06 |
| | | inferiorum ſequens —— | | 502 71 | 20 59 40 |
| | | ſuperiorum præcedens —— | | 457 08 | 19 04 57 |
| | 58 | ſuperiorum ſequens —— | | 441 55 | 18 26 04 |
| | | Exigua nunc perpendicularis ſupra hanc —— | | 435 11 | 18 09 57 |
| | 8 18 | *Aldebaran* — & —— ξ | | 1006 75 | 42 02 27 |
| | | —— ν | | 1056 15 | 44 06 13 |
| | | —— μ | | 1115 82 | 46 35 43 |
| | | —— ζ | | 1200 12 | 50 07 00 |
| | | —— ε | | 1259 57 | 52 36 01 |
| | | —— δ | | 1343 73 | 56 06 27 |
| | | —— *e* | | 1242 50 | 51 53 13 |
| | 9 25 | —— *f* | | 1203 98 | 50 16 40 |
| ☽ 20 | 8 20 | *Micrometro*, inter ζ, & ejus comitem Auſtraliorem in Conſeq. | 37′ 42″ | Az X[a] | 12′ 58″ |
| | 35 | inter δ, & ejus com. Auſtral. etiam in Conſeq. | 18 07 | Az X[a] | 4 46 |
| ♃ 23 | 6 31 | *Andromedæ Caput* & —— ω | | 534 85 | 22 00 21 |
| | | *Clara in Cingulo Andromedæ Mirach* & —— α | | 838 77 | 35 01 50 |
| | 8 00 | —— ξ | | 813 93 | 33 59 44 |
| | | —— ν | | 742 63 | 31 01 24 |
| | | —— μ | | 714 75 | 29 51 24 |
| | 38 | —— *f* | | 767 40 | 32 04 06 |
| | | —— ζ | | 671 70 | 28 03 34 |
| | | *Andromedæ Caput* & —— ε | | 593 98 | 24 48 40 |
| | | —— δ | | 563 13 | 23 31 22 |

| ANNO CHRISTI MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PISCIUM.* | Distantiæ per lineam diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent | ° ′ ″ |
|---|---|---|---|---|---|
| ♃ Nov. 23 | 8 | *Andromedæ Caput* & —— *e* | | 656 42 | 27 25 16 |
| | 9 55 | —— *m* | | 447 47 | 18 40 55 |
| | | —— *d* | | 521 88 | 21 47 43 |
| | | —— *n* | | 611 05 | 25 31 35 |
| | 10 42 | *Androm. Caput* & Aldebaran —— | | 1488 95 | 62 09 20 |
| | 53 | —— *Mirach* & Aldebaran —— | | 1184 19 | 49 27 09 |
| | | *Aldebaran* — & —— *n* | | 1059 77 | 44 15 16 |
| ☽ Dec. 4 | 8 47 | *Lucida Mandibulæ Ceti* & —— *n* | | 598 74 | 25 00 34 |
| ♃ 7 | 7 02 | *Capella* —— & —— *n* | *bis.* | 1336 73 | 55 49 03 |
| | 36 | *Cornu* ♉ *superius,* & —— *n* | | 1329 13 | 55 30 00 |
| MDCLXXVII. | | | | | |
| ♀ Sep. 14 | 9 19 | *Lucida Arietis* & —— γ | | 1096 28 | 45 46 43 |
| | 25½ | —— β | | 1157 89 | 48 21 10 |
| | 35 | —— *b* | | 1053 63 | 43 59 54 |
| | 37 | —— θ | | 1001 94 | 41 50 24 |
| | 42 | —— ι | | 949 25 | 39 38 15 |
| | 45 | —— ω | | 835 21 | 34 53 04 |
| ♄ 15 | 8 31 | *Inter contiguas ad A, Tubo breviore & Micrometro.* | * * * A | 1329 = | 10′ 56″ |
| ☽ 17 | 9 21 | *Lucida Arietis* & antecedens trium præcedentium A —— *p* | | 1236 28 | 51 37 36 |
| | 30 | harum sequens —— *s* | | 1214 41 | 50 42 46 |
| | 35 | Australissima —— *t* | | 1217 85 | 50 51 25 |
| | | Exigua hanc sequens —— *u* | | 1205 05 | 50 19 21 |
| | 47 | *Media in nexu boreo Lini Piscium n,* & —— *x* | | 809 07 | 33 47 40 |
| | 54 | quæ præcedit λ ad Bor. —— | | 749 24 | 31 17 58 |
| | 56 | —— λ | | 722 44 | 30 10 37 |
| | 10 00 | Exigua sequens λ —— *p* | | 657 56 | 27 28 07 |
| | 5 | hanc ad Austr. præced. —— *a* | | 692 43 | 28 55 33 |
| | | quæ inter λ & ι ad Bor. *b* | | 680 85 | 28 26 30 |
| | 20 | —— ω | | 577 65 | 24 07 45 |
| | | media trium ad —— *c* | | 545 70 | 22 47 33 |
| | | Borealis ad —— *c* | | 542 56 | 22 39 40 |
| ♂ 18 | 9 10 | *Lucida Arietis* & lucidior ad —— β | | 1157 76 | 48 20 51 |
| | 15 | —— *b* | | 1053 63 | 43 59 55 |
| | 20 | —— γ | | 1096 10 | 45 46 16 |
| | 42 | *Scheat Pegasi* & antecedens trium præcedentium A —— *p* | | 648 37 | 27 05 06 |
| | 47 | harum sequens —— *s* | | 649 33 | 27 07 31 |
| | 49 | Australissima —— *t* | | 667 72 | 27 53 37 |
| | 54 | Exigua hanc sequens —— *u* | | 661 84 | 27 38 51 |
| | 10 02 | *Nodus Lini Piscium* & inferiorum in □ sub ♓ præced. præcedens | | 747 78 | 31 14 18 |
| | 8½ | inferiorum sequens —— | | 726 50 | 30 20 46 |
| | 12 | parvula hanc sequens —— | | 694 83 | 29 01 28 |
| | 17 | superiorum præcedens —— | | 753 05 | 31 27 30 |

| Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Piscium.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Sept. 18 | 10 22 | *Nodus Lini Piſcium* & ſuperiorum ſequens —— | | 732 30 | 30 35 19 |
| | 27 | quæ hanc ſequitur media quatuor minorum in nebuloſa quaſi, —— | * *f* | 692 32 | 28 55 10 |
| | 34½ | *Lucida Plejadum* & —— ζ | * | 965 24 | 40 18 24 |
| | | Comes ejus Auſtralior —— | | 966 68 | 40 22 00 |
| | 45 | —— ε | | 1017 92 | 42 30 27 |
| | 51 | —— δ | | 1097 06 | 45 48 40 |
| ☿ Nov. 7 | 6 46 | *Præcedens in Ventre ♓ Auſtrinæ, κ* & in □ ſub ea inferiorum, præcedens —— | | 309 36 | 12 55 12 |
| | | inferiorum ſequens —— | | 312 38 | 13 02 40 |
| | 56 | parvula hanc ſequens —— | | 318 62 | 13 18 19 |
| | 7 11 | ſuperiorum præcedens —— | | 247 85 | 10 21 12 |
| | 16 | ſuperiorum ſequens —— | | 246 29 | 10 17 18 |
| | 28 | quæ hanc ſequitur media quatuor minor. in nebuloſa quaſi, —— f | | 257 93 | 10 46 28 |
| | 37 | *Nodus Lini Piſcium, α,* & præcedens in Ventre Piſcis Auſtrini, —— ι | | 851 67 | 35 34 09 |
| ♄ 10 | 7 10 | *Extrem. Alæ Pegaſi* & parvula ſequens inferiores in □ ſub Piſce præcedente —— | | 489 50 | 20 26 21 |
| | 13 | quæ ſequitur ſuperiores, media quaſi nebul. f | | 423 36 | 17 40 30 |
| | 18 | Exigua ſuperiores præcedens, ad Boream — | | 455 39 | 19 00 43 |
| | 25 | hanc præced. magis ad Boream | | 455 26 | 19 00 23 |
| | 34 | *Nodus Lini Piſcium* & exigua ſuperiores præcedens ad Boream | | 785 49 | 32 48 42 |
| | 39 | hanc præced. magis ad Boream | | 813 37 | 33 58 20 |
| | 47 | *Media in Nexu boreo Lini Piſcium* & quæ præcedit λ, —— d | | 749 28 | 31 18 04 |
| | 55 | *Nodus Lini Piſcium* & extrema Alæ Pegaſi —— | | 707 17 | 29 32 24 |
| | 58 | —— ι | | ::851 67 | 35 34 09 |
| | 8 48 | *Markab,* — & quæ præcedit λ, —— d | | 565 76 | 15 16 16 |
| ♀ 14 | 6 28½ | *Caput Andromedæ* & quæ præcedit λ, —— d | | 671 66 | 28 03 28 |
| | 36 | —— λ | | 670 77 | 28 01 15 |
| | 43 | quæ ſequitur λ ad Auſtr. a | | 679 49 | 28 23 06 |
| | 48 | hanc ſequens ad Auſtr. b | | 698 20 | 29 09 55 |
| | 54 | Borealis 2arum præcedent. p | | 633 48 | 26 27 39 |
| | 7 00 | quæ præced. harum Auſtral. | | 650 43 | 27 10 16 |
| | 4 | Auſtralior ad p, —— r | | 652 54 | 27 15 33 |
| | 9 | Borealiſſima ſupra λ, —— x | | 625 80 | 26 08 25 |
| | 19 | *Pegaſi Markab* & —— n | | 846 24 | 35 20 33 |
| | 26 | *Nodus Lini Piſcium* & —— b | | 763 88 | 31 54 40 |
| | 33 | quæ ſequitur λ ad Auſtr. a | | 794 24 | 33 10 30 |
| | 37 | —— λ | | 837 28 | 34 58 15 |
| | 39 | —— d | | 871 06 | 36 22 30 |

| Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PISCIUM.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Nov. 14 | 7 43 | *Nodus Lini* ♓ium & ——— *x* | | 810 82 | 33 52 04 |
| | 48 | ——— *p* | | 777 66 | 32 29 04 |
| | 51 | ——— *r* | | 771 32 | 32 13 10 |
| | 9 28¼ | Andromedæ Caput ——— | | 903 34 | 37 43 25 |
| | 41 | *Pegaſi Markab* & ——— ι | | 308 08 | 12 51 54 |
| | 51 | ——— λ | | 389 99 | 16 16 55 |
| | 58 | ——— κ | | 358 88 | 14 59 01 |
| | 10 04 | quæ ſequitur κ ad Auſtr. | | 362 56 | 15 08 15 |
| ☽ 19 | 8 14 | *Aldebaran* — & Nodus Lini ——— α | | 963 26 | 40 13 25 |
| | 17 | ——— rep. accur. | | 963 34 | 40 13 37 |
| | 21 | ——— ξ | | 1006 74 | 42 02 25 |
| | 24 | ——— ν | | 1056 10 | 44 06 06 |
| | 27 | ——— μ | | 1115 85 | 46 35 48 |
| | 33 | ——— ο | | 1008 86 | 42 07 45 |
| | 41 | ——— *f* | | 1204 10 | 50 16 58 |
| | 48½ | ——— *e* | | 1242 55 | 51 53 21 |
| | 52 | ——— ζ | | 1200 06 | 50 06 51 |
| | 58 | ——— ε | | 1259 49 | 52 35 49 |
| | 9 01⅓ | ——— δ | | 1343 63 | 56 06 12 |
| | | Comes ejus Auſtralior ——— | | 1347 72 | 56 16 27 |
| | 10 | præcedens duarum ad — π | | 1040 29 | 43 26 28 |
| | 15 | ——— η | | 1059 73 | 44 15 10 |
| | 29 | *Pegaſi Markab* & Nodus Lini ——— α | | 1087 16 | 45 23 51 |
| ♂ Dec. 4 | 8 29 | *Aldebaran* — & ——— ζ | | 1200 13 | 50 07 01 |
| ♂ 11 | 7 50 | *Aldebaran* — & ——— ζ | | 1200 19 | 50 07 10 |
| | 53 | Comes ejus ad Auſtrum — | | 1197 89 | 50 01 24 |
| ♀ 14 | 5 43 | *Lucida Arietis* & præced. trium anteced. A, *p* | | 1236 53 | 51 38 13 |
| | 57 | *Scheat Pegaſi* & ——— A | | 621 88 | 25 58 34 |
| MDCLXXIX. | | | | | |
| ☿ Oct. 22 | 9 14 | *Nodus Lini Piſcium* & præcedens inferiorum in □ ſub ♓e præcedente | 31 14 40 | 748 00 | 31 14 50 |
| | 18 | inferiorum ſequens ——— | 30 20 40 | 726 65 | 30 21 13 |
| | 22 | ſuperiorum præcedens ——— | 31 27 40 | 753 26 | 31 27 58 |
| | 26 | ſuperiorum ſequens ——— | 30 36 00 | 732 13 | 30 35 00 |
| ♂ Nov. 11 | 7 30 | *Pegaſi Markab* & præced. contiguar. ad — ρ | 33 59 00 | 813 60 | 33 58 53 |
| | | ſeq. minor, & Boreal. ad ρ | 34 05 10 | 816 00 | 34 04 54 |
| | | infima ad ——— ♃ | 30 07 30 | 721 42 | 30 08 04 |
| | | media ad ——— ♃ | 29 46 15 | 712 80 | 29 46 28 |
| | | ſuprema ad ——— ♃ | 29 19 25 | 702 20 | 29 19 55 |
| | | *Suprema hæc ad ♃ è duabus conſtat ſat claris unà ferè filum tranſeuntibus.* | | | |
| | | ——— χ | 30 36 25 | 732 92 | 30 36 58 |
| | | ——— φ | 31 38 55 | 757 93 | 31 39 40 |
| | | ——— υ | 33 29 25 | 801 97 | 33 29 48 |
| | | ——— *l* | 34 13 45 | 819 64 | 34 14 00 |
| | | ——— τ | 32 41 05 | 782 56 | 32 41 15 |
| | | ——— *g* | 33 03 15 | 791 49 | 33 03 36 |
| | | ——— σ | 31 34 55 | 756 28 | 31 35 32 |
| | | ——— *b* | 29 29 00 | 705 01 | 29 29 27 |
| | | ——— *i* | 27 22 20 | 655 50 | 27 22 58 |
| | | ——— *k* | 28 28 30 | 681 90 | 28 29 06 |

| Anno Christi MDCLXXIX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Piscium.* | Diſtantiæ per lineas diagonales. ° ' " | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ' " |
|---|---|---|---|---|---|
| ☽ Nov. 17 | 10 15 | *Aldebaran* — & —— *n* | 44 14 45 | 1059 81 | 44 15 21 |
| | 20 | præced. contiguar. ad — ρ | 45 03 35 | 1079 22 | 45 03 57 |
| | 22 | ſequens contiguarum ad ρ | 44 57 35 | 1076 80 | 44 57 52 |
| ☽ 24 | 6 50 | *Nodus Lini* — & —— *i* | 30 19 00 | 725 80 | 30 19 06 |
| | 57 | —— *k* | 29 06 25 | 696 78 | 29 06 21 |
| | 7 01 | —— *b* | 30 20 10 | 726 40 | 30 20 36 |
| | 6 | —— σ | 32 13 05 | 771 10 | 32 12 36 |
| | 10 | —— *g* | 31 04 05 | 743 70 | 31 04 05 |
| | 16 | —— τ | 29 49 05 | 713 77 | 29 48 54 |
| | 23 | —— *l* | 27 44 15 | 664 12 | 27 44 23 |
| ☿ Dec. 10 | 6 20 | *Lucida Plejadum* } & ad Linum, ſequentium *c*, trium præced. & Boreal. } | 52 51 00 | 1265 77 | 52 51 29 |
| | | *p* Auſtralior juxta ; —— *b* | 52 43 25 | 1262 68 | 52 43 45 |
| | | *p* * ſeq. præcedentem in = alt. *s* | 52 17 30 | 1252 29 | 52 17 45 |
| | 36 | • * —— *m* | 49 42 40 | 1190 53 | 49 42 58 |
| | 41 | * *b* —— *d* | 51 50 10 | 1241 44 | 51 50 34 |
| | | *s* —— δ | 45 48 40 | 1097 23 | 45 49 07 |
| | 52 | * infra δ, —— *n* | 45 57 05 | 1124 36 | 46 57 10 |
| | 7 00 | • Borealis trium infra —— ε | 44 00 40 | 1054 11 | 44 01 06 |
| | | antecedens hanc ad Auſtr. | 43 52 00 | 1050 50 | 43 52 03 |
| | 9 | hâc Auſtralior & Clarior | 43 39 05 | 1045 40 | 43 39 16 |
| | | has ſequens —— | 43 41 20 | 1046 37 | 43 41 42 |
| | | —— *e* | 42 22 45 | 1015 06 | 42 23 15 |
| | 39 | *Caput Andromedæ* } & ad Linum, ſequentium *c*, trium præced. & Boreal. } | 20 20 25 | 487 13 | 20 20 31 |
| | | ſequens præcedent. in = alt. | 20 20 35 | 487 24 | 20 20 48 |
| | | Auſtralior juxta præced.— | 20 57 40 | 501 87 | 20 57 39 |
| | 8 00 | —— *d* | 21 07 10 | 505 70 | 21 07 10 |
| | | —— *m* | 22 52 10 | 547 45 | 22 52 03 |
| | 13 | —— δ | 23 31 00 | 562 99 | 23 31 00 |
| | | —— ε | 24 48 05 | 593 82 | 24 48 13 |
| | 23 | infra δ —— *n* | 25 31 00 | 610 92 | 25 31 06 |
| | | —— *e* | 27 25 00 | 656 32 | 27 25 01 |
| | 35 | Borealis trium infra ε —— | 25 10 35 | 602 76 | 25 10 39 |
| | | antecedens hanc ad Auſtr. | 25 40 15 | 614 69 | 25 40 35 |
| | 41 | hâc Auſtralior & Clarior — | 26 26 00 | 632 85 | 26 26 07 |
| | 45 | has ſequens —— | 25 52 30 | 619 60 | 25 52 52 |
| MDCLXXX. | | | | | |
| ♄ Jan. 3 | 5 48 | *Pegaſi Markab* & —— *n* | 35 20 55 | 846 52 | 35 21 12 |
| | | —— rep. | 35 21 00 | 846 58 | 35 21 21 |
| ♄ Nov. 27 | 5 45 | *Markab Pegaſi* & clara in lino Boreali — *n* | 35 20 30 | 846 16 | 35 20 18 |
| | 6 17 | *Nodus Lini* — & Ejuſdem —— *v* | 26 31 20 | 635 04 | 26 31 37 |
| | 20 | —— φ | 24 43 20 | 591 94 | 24 43 31 |
| | 23 | —— χ | 22 01 40 | 527 38 | 22 01 37 |
| | 28½ | ſupremarum ad ♆ Borealis | 23 11 30 | 555 14 | 23 11 20 |
| | 31 | harum Auſtralis —— | 23 11 00 | 554 96 | 23 10 52 |
| | 33 | media ad ♆ —— | 22 17 30 | 533 65 | 22 17 22 |
| | 36 | infima ad ♆ —— | 21 09 20 | 506 67 | 21 09 36 |
| | 43 | præcedens duarum ad — ρ | 18 35 20 | 445 11 | 18 35 00 |
| | 46 | harum ſequens ad —— ρ | 18 36 10 | 445 55 | 18 36 05 |

| ANNO CHRISTI MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PISCIUM*. | | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. | Cent. | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ♃ Dec. 9 | 6 26½ | *Quæ in ore Piscis, γ,* & ejusdem | ε | 26 | 46 | 50 | 641 | 47 | 26 | 47 | 45 |
| | 32 | *Nodus Lini* — & | γ | 41 | 13 | 15 | 987 | 26 | 41 | 13 | 36 |
| | 35 | | rep. | 41 | 13 | 15 | 987 | 26 | 41 | 13 | 36 |
| | 39 | | β | 44 | 28 | 30 | 1065 | 02 | 44 | 28 | 24 |
| | 42 | | rep. | 44 | 28 | 25 | 1065 | 00 | 44 | 28 | 21 |
| | 50 | *Os Pegasi* — & | η | 55 | 34 | 25 | 1331 | 28 | 55 | 35 | 18 |
| | 52 | | rep. | 55 | 34 | 30 | 1331 | 34 | 55 | 35 | 27 |
| | 58 | *Pegasi ad Oculum, θ,* & Nodus Lini | α | 57 | 52 | 50 | 1386 | 56 | 57 | 53 | 27 |
| | 7 03 | *Mandibula Ceti,* — & | γ | 56 | 13 | 25 | 1346 | 64 | 56 | 13 | 42 |
| | 8 | | κ | 53 | 50 | 50 | 1289 | 65 | 53 | 51 | 12 |
| | 14 | *Antecedens & Austrina duarum ad κ, Ceti,* — & hujus | κ | 58 | 04 | 15 | 1391 | 16 | 58 | 04 | 55 |
| | 18 | | rep. | 58 | 04 | 25 | 1391 | 21 | 58 | 05 | 03 |
| MDCLXXXII. | | | | | | | | | | | |
| ♂ Sept. 19 | 9 51½ | *Aquilæ lucida* & | γ | 51 | 33 | 05 | 1234 | 49 | 51 | 33 | 07 |
| | 53½ | | rep. | 51 | 33 | 00 | 1234 | 47 | 51 | 33 | 05 |
| | 57 | *Antinoi Manus sequens, θ,* — & | λ | 52 | 45 | 30 | 1263 | 48 | 52 | 45 | 45 |
| | 10 04½ | | κ | 48 | 56 | 45 | 1172 | 06 | 48 | 56 | 45 |
| | 11 | *Aquilæ, β,* — & | γ | 50 | 18 | 10 | 1204 | 67 | 50 | 18 | 22 |
| | 16 | *Aquilæ, γ,* — & | γ | 52 | 43 | 10 | 1262 | 51 | 52 | 43 | 20 |
| | 24 | *Aquilæ lucida* & | β | 48 | 14 | 50 | 1155 | 49 | 48 | 15 | 10 |
| | 45 | *Os Pegasi* — & | η | 55 | 34 | 40 | 1331 | 13 | 55 | 34 | 55 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE ANDROMEDÆ. | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♂ Nov. 11 | 8 circit. | *Markab Pegasi* & | η | 27 43 15 | 663 87 | 27 43 57 |
| | | | ζ | 25 44 15 | 616 44 | 25 44 57 |
| MDCLXXX. | | | | | | |
| ☽ Nov. 22 | 6 09 | *Markab Pegasi* & | θ | 28 20 50 | 678 87 | 28 21 16 |
| | 17 | | ρ | 28 18 45 | 677 98 | 28 19 16 |
| | 23 | | σ | 27 03 55 | 648 16 | 27 04 35 |
| | 28 | | π | 27 49 15 | 666 43 | 27 50 15 |
| | 33 | | δ | 26 40 55 | 639 03 | 26 41 37 |
| | 37 | | ε | 25 48 25 | 618 18 | 25 49 20 |
| | 42 | | ν | 34 25 55 | 824 64 | 34 26 30 |
| | 51 | | μ | 33 52 00 | 811 09 | 33 52 36 |
| | 56 | Mirach | β | 34 33 00 | 827 45 | 34 33 32 |
| | 7 02 | *Algenib Pegasi*, & | γ | 36 03 40 | 863 67 | 36 04 08 |
| | 9 27 | *Markab* & Andromedæ, δ, | rep. | 26 40 50 | 639 10 | 26 41 48 |
| | 50 | *Clara in Lino Boreal. Piscium*, η, & | θ | 28 29 05 | 681 90 | 28 29 06 |
| | 52½ | | ρ | 27 26 20 | 656 91 | 27 26 30 |
| | 56½ | | σ | 26 53 30 | 643 88 | 26 53 50 |
| | 58 | | π | 22 07 55 | 529 77 | 22 07 37 |
| | 10 04½ | | δ | 19 25 00 | 469 02 | 19 34 57 |
| | 7 | | ε | 18 32 25 | 444 03 | 18 32 16 |
| | 10 | *Lucida Arietis* & Mirach | β | 17 23 20 | 416 64 | 17 23 37 |
| | 13 | | μ | 21 13 00 | 508 10 | 21 13 12 |
| | 17 | | ν | 23 53 50 | 572 36 | 23 54 28 |
| | 24 | *Lucida Plejadum* & | γ | 28 06 05 | 672 75 | 28 06 12 |
| ☽ 29 | 7 31 | *Lucida Arietis* & media nebulosæ ad Cingul. | | 25 03 20 | 599 81 | 25 03 15 |
| | 36 | quæ præced. nebulos. ad Austr. | | 24 11 30 | 579 13 | 24 11 25 |
| | 59 | | rep. | 24 11 50 | 579 32 | 24 11 55 |
| | 8 09 | *Markab Pegasi* & media nebulosæ | | 33 35 05 | 804 27 | 33 35 33 |
| ♃ Dec. 2 | 5 56½ | *Extrema Alæ Pegasi* & | τ | 31 41 45 | 759 18 | 31 42 48 |
| | 6 00 | | υ | 31 52 25 | 763 28 | 31 53 03 |
| | 7 | Austr. trium hanc sequent. ad Bor. in recta linea | | 33 19 25 | 797 96 | 33 19 46 |
| | 12 | harum media, & minima Australi vicina | | 33 44 10 | 807 92 | 33 44 40 |
| | 15 | illarum Borealissima lucid. | | 34 25 45 | 824 59 | 34 26 22 |
| | 28 | seq. 2arum propinq. ad dext. rectæ per γ & φ | ω | 34 01 20 | 814 85 | 34 02 01 |
| | | harum præcedens | ξ | 33 38 20 | 805 62 | 33 38 55 |
| | 37 | inter has & Austral. in Pede Boreali | A | 35 36 30 | 852 85 | 35 37 03 |
| | 43 | Australis in Pede Boreali | | 37 41 45 | 902 89 | 37 42 14 |
| | 46½ | Borealis in eodem Pede | | 39 53 40 | 955 79 | 39 54 42 |
| | 51 | | φ | 34 07 00 | 817 08 | 34 07 36 |
| | 55 | Bor. 2arum in recta cum, φ, & | β | 31 01 20 | 742 95 | 31 02 12 |
| | 7 01 | harum Austrina | | 29 34 45 | 708 45 | 29 35 35 |
| | 16 | *Luc. Plejadum* & | τ | 31 11 45 | 746 82 | 31 11 52 |
| | 19 | | υ | 32 10 25 | 770 07 | 32 10 01 |
| | 23 | Australis trium has seq. ad Bor. in recta linea | | 31 53 05 | 763 26 | 31 53 00 |

| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Andromedæ*. | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochlea Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♃ Dec. 2 | 7 25 | *Lucida Plejadum.* — & harum media minima Auſtrali vicina — | | 32 18 30 | 773 26 | 32 18 00 |
| | 29 | illarum Borealiſſ. lucid. | χ | 32 59 30 | 789 81 | 32 59 24 |
| | 32 | ſeq. 2arum propinq. ad dext. rectæ per γ & φ | ω | 35 20 00 | 845 95 | 35 19 47 |
| | 36 | harum præcedens — | ξ | 36 11 50 | 866 69 | 36 11 40 |
| | 40 | inter has & Auſtralem in Pede Boreali — | A | 35 38 20 | 853 23 | 35 38 00 |
| | 44 | Auſtralis in Pede Boreali, Perſei, υ — | | 35 18 40 | 845 43 | 35 18 28 |
| | 47 | Borealis in eodem Pede, Perſei, φ — | | 35 42 40 | 855 00 | 35 42 25 |
| | 50 | — | φ | 38 54 15 | 931 70 | 38 54 18 |
| | 53 | Borealis duarum in recta cum φ & β. — | *d* | 38 01 20 | 910 42 | 38 01 03 |
| | 55 | harum Auſtrina — | *e* | 37 02 30 | 886 96 | 37 02 22 |
| | 8 01 | Algenib, ſive extrem. Alæ Pegaſi — | | 50 55 55 | 1219 81 | 50 56 20 |
| | 6 | — | *b* | 27 48 45 | 665 93 | 27 49 06 |
| | 10 | — | *c* | 29 07 45 | 697 35 | 29 07 46 |
| | 20 | *Extrema Alæ Pegaſi, Algenib,* — & — | *b* | 38 35 10 | 924 32 | 38 35 50 |
| | 25 | — | *c* | 41 25 10 | 992 22 | 41 26 03 |
| | 31 | *Markab Pegaſi* — & quæ præced. Nebul. ad Auſt. | | 32 07 35 | 769 39 | 32 08 20 |
| ♃ 9 | 7 06 | *Markab Pegaſi* & — | ι | 28 57 20 | 693 47 | 28 58 03 |
| | 14 | — | κ | 30 05 10 | 720 69 | 30 06 15 |
| | 19 | — | λ | 32 01 55 | 766 78 | 32 01 48 |
| | 23 | — | ♆ | 32 22 15 | 775 15 | 32 22 44 |
| | 33 | *Quæ ad genu Pegaſi, ι,* & — | ο | 20 24 00 | 488 86 | 20 24 42 |
| | 39 | *Lucida Arietis* & — | ι | 36 25 00 | 871 93 | 36 24 47 |
| | 41 | — | κ | 36 26 10 | 872 39 | 36 25 55 |
| | 43 | — | λ | 37 45 55 | 904 25 | 37 45 37 |
| | 45 | — | ♆ | 36 24 25 | 871 73 | 36 24 16 |
| | 48 | — | ο | 42 32 40 | 1018 85 | 42 32 45 |
| MDCLXXXI. | | | | | | |
| ♀ Jan. 5 | 5 41 | *Lucida Arietis,* — & Caput — | α | 27 07 55 | 649 29 | 27 07 24 |
| | 57 | *Extrema Alæ Pegaſi,* — & Caput — | α | 13 58 20 | 334 53 | 13 58 06 |
| MDCLXXXII. | | | | | | |
| ♃ Jan. 26 | 8 18 | *Polaris* — & — Mirach — | β | 53 41 25 | 1285 58 | 53 41 01 |
| ♄ 28 | 7 56 | *Polaris* — & — | δ | 58 28 50 | 1400 62 | 58 28 34 |
| | 8 04 | — | ε | 60 00 50 | 1437 45 | 60 00 37 |
| | 15 | Pes lucidus Alamech — | | 46 56 35 | 1124 28 | 46 56 20 |
| | 23 | Auſtralis in pede Boreo — | | 40 38 40 | 973 42 | 40 38 54 |
| ♃ Sept. 21 | 9 33 | *Roſtrum Cygni* & — | α | 60 01 55 | 1437 98 | 60 01 57 |
| | 37 | — | rep. | 60 01 55 | 1437 98 | 60 01 57 |

| Anno Christi MDCLXXIX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *Antinoi & Aquilæ.* | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Aug. 2 | 9 27 | *Markab Pegaſi* & Aquilæ | ε | 58 55 00 | 1411 28 | 58 55 13 |
| | 34 | | ζ | 57 44 00 | 1382 82 | 57 44 06 |
| | | | A | 54 34 05 | 1306 83 | 54 34 09 |
| | | | ω | 55 09 00 | 1320 89 | 55 09 20 |
| ☽ 4 | 9 32 | *Markab* —— & Aquilæ | ζ | 57 43 40 | 1382 70 | 57 43 48 |
| | 43 | | ε | 58 54 55 | 1411 25 | 58 55 09 |
| | | Cauda Serpentis Ophiuchi | L | 62 00 30 | | |
| | | Aquilæ | δ | 55 18 05 | 1324 48 | 55 18 18 |
| | 55 | | ν | 55 51 10 | 1337 81 | 55 51 37 |
| | | | ι | 53 58 50 | 1292 79 | 53 59 03 |
| | | | η | 49 29 35 | 1185 33 | 49 29 58 |
| | | | θ | 45 44 30 | 1095 58 | 45 44 58 |
| | | | γ | 48 28 55 | 1160 97 | 48 28 55 |
| | 10 21 | | α | 47 47 55 | 1144 69 | 47 48 06 |
| | | | ξ | 47 00 50 | 1125 84 | 47 00 54 |
| | 28 | | β | 47 13 30 | 1131 00 | 47 13 48 |
| ☿ 6 | 9 34 | *Markab* —— & Aquilæ | μ | 52 07 25 | 1248 31 | 52 07 48 |
| | 39 | | σ | 51 22 05 | 1230 23 | 51 22 25 |
| | 53 | *Roſtrum Cygni* & in Cauda Serpentis | L | 25 07 45 | 601 84 | 25 08 20 |
| | 10 02 | Aquilæ | δ | 24 52 35 | 595 77 | 24 53 07 |
| | 6 | | ν | 27 37 40 | 661 73 | 27 38 34 |
| | 22 | | ι | 29 16 25 | 700 83 | 29 16 30 |
| | 29 | | η | 27 26 35 | 657 08 | 27 26 55 |
| | 36 | | θ | 30 22 30 | 727 31 | 30 22 52 |
| | 50 | | μ | 20 34 15 | 492 74 | 20 34 39 |
| | 11 08 | | σ | 22 38 35 | 542 11 | 22 38 38 |
| ♃ 7 | 9 42 | *Roſtrum Cygni* & Aquilæ | γ | 17 43 25 | 424 58 | 17 43 31 |
| | 48 | | α | 19 41 00 | 471 52 | 19 41 15 |
| | | | ξ | 20 15 40 | 485 25 | 20 15 48 |
| | 10 06 | | β | 22 17 00 | 533 50 | 22 17 00 |
| MDCLXXX. | | | | | | |
| ♄ Julij 10 | 10 44 | *Markab* —— & Antinoi | c | 57 38 45 | 1380 82 | 57 39 06 |
| | 52 | | e | 55 54::30 | 1339 25 | 55 55 13 |
| | 56 | | κ | 56 04 15 | 1342 99 | 56 04 34 |
| | 11 00 | quæ ſupra κ | | 54 56 25 | 1315 95 | 54 56 58 |
| | 4 | | f | 59 12 55 | 1418 50 | 59 13 16 |
| | 10 | *Os Pegaſi* —— & | λ | 41 59 25 | 1005 79 | 42 00 03 |
| | | ſuperius ſequentium, infer. | b | 42 00 25 | 1006 16 | 42 00 58 |
| | | —— harum ſuperior —— | g | 42 22 55 | 1015 16 | 42 23 30 |
| | 20 | trium infra λ ſequens | i | 43 22 25 | 1038 64 | 43 22 20 |
| | 23 | quæ hanc præcedit | k | 44 28 55 | 1065 45 | 44 29 30 |
| | 28 | harum Occidentalis | l | 46 26 10 | 1112 21 | 46 26 42 |
| | 37 | infra hanc | | 46 39 40 | 1117 66 | 46 40 22 |
| | 42 | Antinoi | m | 50 22 45 | 1206 63 | 50 23 18 |
| | 45 | | n | 48 28 40 | 1161 10 | 48 29 15 |
| | 48 | | o | 49 08 00 | 1176 78 | 49::08 35 |
| ☿ 14 | 10 21 | *Markab Pegaſi* & quæ præced. Antinoi —— *Hæc eſt in Nebuloſa.* | κ | 52 35 10 | 1259 58 | 52 36 00 |
| | 31 | quæ infra hanc | | 54 35 10 | 1307 48 | 54 35 46 |
| | 35 | quæ infra κ | | 57 56 10 | 1387 73 | 57 56 22 |
| | | quæ infra *f* | | 41 42 05 | 998 86 | 41 42 40 |
| | 54 | *Caput Ophiuchi* & | λ | 28 37 50 | 685 40 | 28 37 51 |
| | 59 | | b | 27 51 15 | 666 92 | 27 51 36 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *Antinoi & Aquilæ.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Julij 14 | 11 02 | *Caput Ophiuchi* & —— g | 27 15 05 | 652 51 | 27 15 28 |
| | 6 | trium infra λ sequens — i | 28 17 30 | 677 24 | 28 17 25 |
| | 12 | quæ hanc præcedit, — k | 27 29 20 | 658 15 | 27 29 37 |
| | 16 | harum Occidentalis, — l | 24 57 00 | 597 32 | 24 57 00 |
| | 20 | —— m | 25 37 40 | 613 56 | 25 37 44 |
| | | *Dubiæ hæ sunt ab adjutore Lusciosi observatæ adhibeantur potius distantiæ ab Ore Pegasi quas ipse observavi per Mobile Sextantis Telescopicum pinnacidium.* | | | |
| ♂ 20 | 9 39 | *Os Pegasi* — & Caput Ophiuchi —— | 61 02 50 | 1462 46 | 61 03 10 |
| | 46 | inferior in Cauda Vulturis —— ζ | 38 59 35 | 933 78 | 38 59 30 |
| | 55 | *Caput Ophiuchi* & —— f | 31 48 40 | 761 66 | 31 49 00 |
| | | quæ infra f —— | 31 47 40 | 761 24 | 31 47 57 |
| | 10 11 | —— ϰ | 36 05 50 | 864 22 | 36 05 30 |
| | | *ϰ Constat è duabus contiguis.* | | | |
| | 19 | quæ supra ϰ —— | 35 02 10 | 838 89 | 35 02 07 |
| | 25 | antecedens ϰ —— | 40 28 00 | 968 98 | 40 27 47 |
| | 30 | quæ infra hanc —— | 41 00 45 | 982 15 | 41 00 48 |
| | 35 | quæ infra ϰ —— | 37 45 45 | 904 18 | 37 45 27 |
| ☿ Sept. 8 | 8 39 | *Pegasi Scheat* & Aquilæ —— τ | 47 10 45 | 1129 92 | 47 11 06 |
| | 44 | —— χ | 49 34 45 | 1187 51 | 49 35 25 |
| | 9 04 | —— π | 48 14 25 | 1155 51 | 48 15 13 |
| | 6 | —— o | 48 24 35 | 1159 52 | 48 25 16 |
| | 11 | —— φ | 47 33 45 | 1139 22 | 47 34 24 |
| | 15 | —— υ | 50 55 45 | 1219 74 | 50 56 09 |
| | 22 | —— ρ | 41 10 40 | 986 49 | 41 11 40 |
| | 26 | —— b | 53 27 30 | 1280 39 | 53 28 03 |
| | 33 | *Pegasi Markab* & Antinoi —— c | 54 46 25 | 1312 00 | 54 47 06 |
| | 44 | *Antecedens & lucidior in sinistrâ manu Aquarij, ε,* & —— χ | 26 45 10 | 640 52 | 26 45 22 |
| | 48 | —— π | 25 51 00 | 618 99 | 25 51 21 |
| | 51 | —— o | 24 23 45 | 584 20 | 24 24 07 |
| | 58 | —— φ | 24 30 15 | 586 67 | 24 30 18 |
| | 10 02 | —— τ | 19 57 50 | 478 11 | 19 57 48 |
| | 06 | —— υ | 23 02 20 | 551 65 | 23 02 36 |
| | | —— ρ | 26 01 25 | 623 04 | 26 01 30 |
| ♃ 9 | 8 13 | *Pegasi Markab* & in manu Aquarii —— ε | 41 59 10 | 1005 69 | 41 59 48 |
| | 33 | *Caput Ophiuchi* & Antinoi —— o | 27 20 50 | 654 67 | 27 20 54 |
| | 36 | *Scheat Pegasi* & in manu Aquarii —— ε | 49 54 40 | 1195 45 | 49 55 16 |
| | 37 | *Caput Ophiuchi* & Antinoi —— n | 26 56 10 | 644 73 | 26 55 57 |
| | 48 | *Aquilæ* δ — & lucidarum duarum inferiorum supra Caudam ejus, Australior —— | 17 45 15 | 425 30 | 17 45 20 |
| | 54 | harum Borealior —— | 19 58 15 | 478 22 | 19 58 05 |
| | 9 03 | *Scheat Pegasi* & earum Borealior —— | 58 35 50 | 1403 78 | 58 36 28 |
| | 9 | Australior —— | 59 11 50 | 1418 11 | 59 12 18 |
| | 16 | Aquilæ —— δ | 57 33 35 | 1378 88 | 57 34 15 |
| ☽ 13 | 8 27 | *Markab Pegasi* & contiguarum ad Rostrum Cygni clarior —— | 50 57 00 | 1220 16 | 50 57 12 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Antinoi & Aquilæ.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♃ Oct. 7 | 7 14 | *Scheat Pegasi* & lucida | α | 49 16 00 | 1179 93 | 49 16 27 |
| | | | rep. | 49 16 05 | 1180 03 | 49 16 42 |
| ♄ 23 | 7 31 | *Markab* — & | ν | 55 51 30 | 1338 10 | 55 52 21 |
| MDCLXXXI. | | | | | | |
| ☿ Mar. 9 | 17 56 | *Ophiuchi Caput* & lucida | α | 33 31 10 | 802 45 | 33 31 00 |
| ☿ Apr. 27 | 15 16 | *Humerus* antecedens Aquarii ab Australi in cauda | | 41 06 50 | 984 64 | 41 07 02 |
| | 18⅓ | | rep. | 41 07 00 | 984 69 | 41 07 09 |
| | 22 | *Caput Herculis* & lucida | α | 38 31 50 | 922 92 | 38 32 20 |
| | | | rep. | 38 31 50 | 922 90 | 38 32 17 |
| | 28 | *Caput Ophiuchi* & lucida | α | 33 30 35 | 802 37 | 33 30 48 |
| | 29 | | rep. | 33 30 40 | 802 41 | 33 30 54 |
| MDCLXXXII. | | | | | | |
| ☽ Aug. 21 | 9 00 | *Caput Ophiuchi* & | α | 33 31 15 | 802 55 | 33 31 15 |
| | 9 | *Scheat* — & | α | 49 15 55 | 1179 66 | 49 15 46 |
| | 14½ | | rep. | 49 15 55 | 1179 65 | 49 15 45 |
| ☿ 30 | 8 03 | *Lucida Coronæ* & | α | 62 51 00 | | |
| | 6¼ | | rep. | 62 51 05 | | |
| ♃ Sept. 21 | 10 28¼ | *Os Pegasi* — & | α | 28 01 20 | 671 04 | 28 01 55 |
| ♀ 22 | 7 09 | *Ted Ophiuchi* & Manus | θ | 59 14 15 | 1418 90 | 59 14 16 |
| | 13 | | rep. | 59 14 15 | 1418 88 | 59 14 13 |
| | 29 | *Quæ in capite Pegasi, θ,* & | β | 33 29 50 | 801 83 | 33 29 27 |
| | 32 | | rep. | 33 29 40 | 801 79 | 33 29 21 |
| | 35½ | *Os Pegasi* — & | α | 28 01 25 | 671 10 | 28 02 05 |
| | 39 | | γ | 29 00 30 | 694 54 | 29 00 45 |
| | 40⅔ | | β | 27 09 10 | 650 20 | 27 09 42 |
| | 51½ | *Caput Ophiuchi* & | α | 33 31 30 | 802 65 | 33 31 30 |
| | 54 | | rep. | 33 31 30 | 802 65 | 33 31 30 |
| ☽ Nov. 13 | 6 25 | *Markab Pegasi* & infima 6 informium, inter manus Aquarii & Antinoi, vel duarum ad ι sequens & Austrina | | 38 48 55 | 929 71 | 38 49 20 |
| | 29 | hanc ad Boream antecedens | 2ª | 39 30 05 | 945 95 | 39 30 02 |
| | 32 | suprema 4 ε hanc anteced. versus θ Antinoi | 3ª | 38 46 45 | 928 83 | 38 47 07 |
| | 36 | quæ infra hanc lucidior | 4ª | 39 41 05 | 950 58 | 39 41 37 |
| | 40 | in recta cum his, | 5ª | 40 41 05 | 974 56 | 40 41 46 |
| | 43 | has antecedens, | 6ª | 42 25 45 | 1016 06 | 42 25 46 |
| | 58 | *Aquilæ lucida* & Borea ad | 6m | 15 14 10 | 364 96 | 15 14 14 |
| | 7 02 | Australis ad | 6m | 15 24 55 | 369 24 | 15 24 57 |
| | 10 | | 5ª | 16 11 15 | 387 63 | 16 10 58 |
| | 16 | | 4ª | 15 30 25 | 371 43 | 15 30 25 |
| | 21 | | 3ª:: | 14 44 45 | 353 18 | 14 44 44 |
| | 24 | | 2ª | 19 52 25 | 476 03 | 19 52 35 |
| | 30 | | 1ª | 21 00 05 | 502 84 | 21 00 05 |

| Anno Christi MDCLXXXV. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Antinoi & Aquilæ.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Oct. 2 | 8 53 | *Antinoi seq. manus* & Aquilæ lucida | 10 57 15 | 262 12 | 10 56 51 |
| | 9 03 | *Cauda Cygni* & Aquilæ lucida | 38 03 10 | 911 19 | 38 02 58 |
| | 10½ | *Os Pegasi* — & Aquilæ lucida | 28 01 40 | 671 07 | 28 02 00 |
| MDCLXXXVI. | | | | | |
| ♂ Aug. 24 | 7 58 | *Caput Ophiuchi* & — α | 33 31 40 | 802 48 | 33 31 05 |
| | 8 06 | *Lucida Coronæ* & eadem | 62 50 45 | | |

| Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione AURIGÆ. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Nov. 6 | 10 44 | *Lucida Arietis* & Capella — α | | 1056 59 | 44 07 18 |
| | | *Aldebaran* — & eadem | | 734 60 | 30 41 04 |
| ♃ Dec. 7 | 7 02 | *In Lino Boreo Piscium clara, n,* & Capella — α | | 1336 73 | 55 49 03 |
| | | — rep. | | 1336 74 | 55 49 04 |
| MDCLXXVII. | | | | | |
| ☿ Feb. 28 | 8 03 | *Cornu Tauri Superius* & in dextro Humero lucida β | | 421 79 | 17 36 33 |
| | | — rep. | | 421 78 | 17 36 31 |
| | 12 | *Castor* — & eadem — β | | 541 36 | 22 36 39 |
| | | — rep. | | 541 39 | 22 36 43 |
| | 23 | *Capella* — & eadem, sive inter Humeros | | 182 04 | 7 36 22 |
| | | — rep. | | 182 03 | 7 36 21 |
| MDCLXXIX. | | | | | |
| ☉ Oct. 19 | 14 49 | *Oculus ♉i Boreus, ε,* & — β | 31 56 15 | 764 64 | 31 56 27 |
| | | — rep. | 31 56 15 | 764 67 | 31 56 31 |
| | 55½ | *Aldebaran* — & eadem — β | 33 24 30 | 799 86 | 33 24 31 |
| | 15 02 | *Pollux* — & eadem — β | 26 59 15 | 646 09 | 26 59 22 |
| | 5 | — rep. | 26 59 10 | 646 07 | 26 59 19 |
| | 9 | *Castor* — & eadem — β | 22 36 25 | 541 26 | 22 36 30 |
| ♃ Dec. 18 | 16 05 | *Cor Leonis* — & — β | 62 00 40 | 1485 71 | |
| | 30 | *Leonis, o,* — & — β | 58 51 05 | 1409 66 | 58 51 10 |
| | 36 | *Cor Leonis* — & — rep. β | 62 00 35 | 1485 67 | |
| ♄ 20 | 7 26 | *Cingulum Andromedæ Mirach,* & Capella — α | 46 39 05 | 1117 39 | 46 39 42 |
| | 33 | *Lucida Arietis* & Capella — α | 44 07 10 | 1056 76 | 44 07 45 |
| | 36 | — rep. | 44 07 20 | 1056 84 | 44 07 55 |
| | 48 | — β | 51 21 55 | 1230 23 | 51 22 25 |
| | 51 | — rep. | 51 21 50 | 1230 21 | 51 22 22 |

| Anno Christi MDCLXXIX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE AURIGÆ. | | Diſtantia per lineas diagonales. ° ′ ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Rev. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Dec. 20 | 10 54 | *Pollux* — & — | β | 26 59 25 | 646 10 | 26 59 24 |
| ☽ 22 | 7 17 | *Lucida Arietis* & Capella (aere ſedatiſſ.) bis, | α | 44 07 20 | 1056 80 | 44 07 50 |
| MDCLXXX. | | | | | | |
| ♀ Jan. 9 | 7 57 | *Lucida Arietis* & Pes ſuperior — | ι | 38 20 55 | 918 50 | 38 21 15 |
| | 8 05 | — | θ | 51 12 45 | 1226 59 | 51 13 20 |
| ♂ Mar. 2 | 8 16 | *Procyon* — & in ſiniſtro cubito — | ε | 51 44 15 | 1239 11 | 51 44 44 |
| | 19 | præcedens Hædorum — | ζ | 50 03 55 | 1198 95 | 50 04 03 |
| | 21 | Hædorum ſequens in ſiniſtra Vola — | η | 49 32 25 | 1188 42 | 49 32 42 |
| | 24 | in ſiniſtro Humero Capellæ, — | α | 51 06 35 | 1224 06 | 51 06 58 |
| | 30 | præcedens & ſuperior duarum in capite — | ξ | 54 32 55 | 1306 34 | 54 32 55 |
| | 33 | inferior & ſequens — | δ | 53 00 25 | 1269 24 | 53 00 10 |
| | 36 | ſupra lucidam in dextro Humero — | π | 46 00 00 | 1101 56 | 46 00 00 |
| | 38 | lucida in dextro Humero | β | 45 14 05 | 1083 34 | 45 14 16 |
| | 44 | præced. 2arum in dext. Brach. | τ | 42 03 05 | 1007 06 | 42 03 13 |
| | 47 | ſequens — | ν | 41 43 10 | 999 10 | 41 43 18 |
| | 49 | in eodem Brachio infer. | θ | 39 12 25 | 938 91 | 39 12 21 |
| | 51 | in dextro Crure — | υ | 40 27 15 | 968 75 | 40 27 12 |
| | 56 | duarum in lumbis Borealis | ρ | 47 38 10 | 1140 84 | 47 38 27 |
| | 59 | — Auſtralis | λ | 47 00 45 | 1125 94 | 47 01 09 |
| | 9 02 | hac inferior ad Occaſum | μ | 46 50 45 | 1122 08 | 46 51 27 |
| | 6 | ſequens — | σ | 44 25 30 | 1063 83 | 44 25 25 |
| | 11 | in ſuperiore Pede — | ι | 45 54 20 | 1123 50 | 46 55 01 |
| | 14 | in inferiore Pede vel Cornu Tauri Boreali | γ | 39 12 55 | 939 20 | 39 13 05 |
| ♂ Oct. 26 | 8 31 | *Lucid. Plejadum* & — | α | 28 19 00 | 678 14 | 28 19 40 |
| | 35 | — | ε | 24 55 10 | 596 68 | 24 55 24 |
| | 40 | — | ζ | 23 05 05 | 552 60 | 23 04 58 |
| | 43 | — | η | 23 45 20 | 568 90 | 23 45 48 |
| | 49 | — | δ | 38 51 55 | 930 91 | 38 52 20 |
| | 53 | — | β | 33 52 30 | 811 01 | 33 52 24 |
| | 57 | — | π | 34 23 25 | 823 41 | 34 23 35 |
| | 9 05 | — | τ | 29 45 20 | 712 23 | 29 45 03 |
| | | — | ν | 30 09 15 | 722 19 | 30 10 01 |
| | 12 | — | θ | 31 05 45 | 744 38 | 31 05 47 |
| | | — | ι | 17 42 15 | 424 10 | 17 42 20 |
| | 23 | — | γ | 22 32 50 | 539 74 | 22 32 39 |
| MDCLXXXI. | | | | | | |
| ☽ Jan. 24 | 5 38 | *Palilicium* — & Capella — | α | 30 42 25 | 735 44 | 30 43 20 |
| | 42½ | *Lucid. Plejadum* & Capella — | α | 28 19 20 | 678 32 | 28 20 09 |
| | 46 | *Lucida Arietis* & Capella — | α | 44 07 20 | 1056 93 | 44 08 09 |
| | 48 | — | rep. | 44 07 15 | 1056 88 | 44 08 01 |
| ☿ Apr. 6 | 8 00 | *Pollux*, — & Capella — | α | 34 17 45 | 821 36 | 34 18 18 |
| | | — | rep. | 34 17 50 | 821 38 | 34 18 21 |
| ♀ 8 | 8 27 | *Pollux* — & — | ε | 36 13 35 | 867 40 | 36 13 27 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione AURIGÆ. | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. | Cent. | ° | ′ | ″ | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☽ Nov. 28 vel 29 mane. | 6 18 | *Lucida Plejadum* & trium anteced. μ, præcedens | 18 | 53 | 35 | 452 | 55 | 18 | 53 | 36 | f |
| | 24 | ——— sequens | 18 | 49 | 15 | 450 | 81 | 18 | 49 | 15 | g |
| | 26 | ——— Borea, ω | 20 | 34 | 55 | 493 | 03 | 20 | 35 | 22 | |
| | 31 | ——— ι | 17 | 42 | 25 | 424 | 19 | 17 | 42 | 33 | |
| | 36 | trium inter ι & γ, ad Boream, Austrina ——— | 21 | 06 | 15 | 505 | 36 | 21 | 06 | 19 | |
| | 43 | ——— media ——— | 21 | 52 | 20 | 523 | 70 | 21 | 52 | 22 | |
| | 46 | Ultima, vel quatuor in □° seq. Borea ——— b | 22 | 25 | 45 | 536 | 94 | 22 | 25 | 39 | |
| | 50 | trium ad ρ, Borea ——— | 26 | 22 | 35 | 631 | 68 | 26 | 23 | 12 | |
| | 54 | 2arum inter hanc & λ, præced. | 25 | 43 | 25 | 615 | 98 | 25 | 43 | 48 | |
| | 58 | ——— sequens | 26 | 06 | 20 | 625 | 00 | 26 | 06 | 25 | |
| | 7 01 | ——— λ | 25 | 00 | 35 | 598 | 69 | 25 | 00 | 27 | |
| | 4 | ——— μ | 23 | 13 | 30 | 556 | 01 | 23 | 13 | 32 | |
| | 8 | ——— υ | 29 | 28 | 10 | 705 | 45 | 29 | 28 | 03 | |
| | 13 | ——— σ | 24 | 37 | 30 | 589 | 56 | 24 | 37 | 33 | |
| | 17 | 4 ad φ parvularum lucidiss. | 24 | 05 | 20 | 576 | 76 | 24 | 05 | 30 | |
| | 21 | ——— χ | 24 | 29 | 10 | 586 | 25 | 24 | 29 | 15 | |
| | 30 | ——— ξ | 39 | 15 | 15 | 939 | 91 | 39 | 14 | 51 | |
| | 16 05 | *Procyon* ——— & trium antecedent. μ præced. | 50 | 13 | 30 | 1202 | 92 | 50 | 14 | 00 | |
| | 10 | ——— sequens | 49 | 22 | 15 | 1282 | 40 | 49 | 22 | 37 | |
| | 12 | ——— Borea | 48 | 50 | 30 | 1169 | 81 | 48 | 51 | 06 | |
| | 15 | ——— ι | 46 | 54 | 10 | 1123 | 49 | 46 | 55 | 00 | |
| | 18 | 3ium inter ι & γ ad Bor. Austr. | 43 | 18 | 10 | 1036 | 75 | 43 | 17 | 36 | |
| | 22 | ——— media | 43 | 11 | 00 | 1034 | 11 | 43 | 11 | 00 | |
| | 24 | Ultima, vel sequentium in □° Borea ——— b | 43 | 11 | 05 | 1034 | 02 | 43 | 10 | 45 | |
| | 26 | ——— ρ | 47 | 38 | 10 | 1140 | 61 | 47 | 37 | 52 | |
| | 30 | 2arum inter hanc & λ, præced. | 47 | 23 | 30 | 1134 | 89 | 47 | 23 | 33 | |
| | 32 | ——— sequens | 46 | 58 | 50 | 1124 | 92 | 46 | 58 | 36 | |
| | 34 | ——— λ | 47 | 00 | 20 | 1125 | 74 | 47 | 00 | 39 | |
| | 36 | ——— μ | 46 | 50 | 40 | 1121 | 99 | 46 | 51 | 13 | |
| | 40 | ——— σ | 44 | 24 | 20 | 1063 | 66 | 44 | 25 | 00 | |
| | 43 | ——— φ | 42 | 10 | 20 | 1009 | 95 | 42 | 10 | 27 | |
| | 45 | ——— χ | 39 | 59 | 00 | 957 | 49 | 39 | 58 | 57 | |
| MDCLXXXII. | | | | | | | | | | | |
| ♀ Jan. 27 | 7 47 | *Polaris* ——— & Capella ——— α | 43 | 25::25 | | 1038 | 98 | 43 | 23 | 10 | |
| | 57 | Humerus sequens ——— β | 44 | 36 | 10 | 1068 | 44 | 44 | 36 | 57 | |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione BOOTIS. | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. | Cent. | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|
| ☿ Mar. 9 vel ♃ 10 mane. | 17 32 | *Ted Ophiuchi* & ——— γ | 49 | 31 | 05 | 1185 | 72 | 49 | 30 | 57 |
| | 37 | ——— β | 47 | 04 | 50 | 1127 | 35 | 47 | 04 | 40 |
| | 40 | sequens duarum ad ——— ν | 45 | 37 | 10 | 1092 | 66 | 45 | 37 | 39 |
| | 42 | præcedens ——— | 45 | 35 | 50 | 1091 | 96 | 45 | 35 | 54 |
| | 44½ | ——— φ | 44 | 48 | 20 | 1072 | 97 | 44 | 48 | 18 |
| | 47 | ——— μ | 42 | 38 | 20 | 1020 | 99 | 42 | 38 | 07 |
| | 49 | ——— δ | 39 | 31 | 25 | 946 | 63 | 39 | 31 | 44 |
| | 52 | quæ sequitur μ, lucida ——— | 41 | 07 | 25 | 984 | 83 | 41 | 07 | 30 |

| Anno Christi MDCLXXXII. Menfe, Die. Styl. Vet. | Temp. App. H. | M. | In Constellatione Bootis. | | Distantiæ per lineas diagonales. ° | ' | " | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Rev. | Cent. | ° | ' | " |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ♃ Apr. 20 | 9 | 19 | *Infima in Cingulo Virginis, γ,* & | υ | 24 | 00 | 50 | 574 | 95 | 24 | 00 | 58 |
| | | 24 | | τ | 24 | 51 | 40 | 595 | 33 | 24 | 52 | 02 |
| | | 28 | | η | 26 | 45 | 20 | 640 | 62 | 26 | 45 | 37 |
| | | 34 | quæ præcedit *e* | | 25 | 48 | 05 | 617 | 88 | 25 | 48 | 35 |
| | | 38 | | *e* | 28 | 07 | 15 | 673 | 36 | 28 | 07 | 44 |
| | | 42 | quæ fequitur *e* | | 29 | 47 | 40 | 713 | 35 | 29 | 47 | 51 |
| | | 48 | Arcturus | α | 31 | 06 | 20 | 744 | 78 | 31 | 06 | 46 |
| | | 52 | | *f* | 32 | 58 | 10 | 789 | 37 | 32 | 58 | 18 |
| | | 56 | quæ infra Arcturum | | 29 | 59 | 10 | 717 | 98 | 29 | 59 | 25 |
| | 10 | 01 | | ξ | 37 | 51 | 20 | 906 | 55 | 37 | 51 | 22 |
| | | 05 | | ο | 35 | 33 | 20 | 851 | 48 | 35 | 33 | 37 |
| | | 08 | | π | 34 | 21 | 00 | 822 | 40 | 34 | 20 | 54 |
| | | 10 | | ζ | 33 | 13 | 30 | 795 | 46 | 33 | 13 | 31 |
| ♀ 28 | 9 | 25 | *Infima in Cingulo Virginis, γ,* & | ρ | 41 | 12 | 00 | 986 | 80 | 41 | 12 | 27 |
| | | 31 | | σ | 41 | 10 | 45 | 986 | 34 | 41 | 11 | 18 |
| | | 38 | | ε | 41 | 07 | 35 | 985 | 00 | 41 | 07 | 55 |
| | | 42 | Comes hujus in antecedentia ad Austrum | | 40 | 30 | 45 | 970 | 33 | 40 | 31 | 09 |
| | | 49 | | ψ | 44 | 33 | 25 | 1067 | 09 | 44 | 33 | 34 |
| | | 54 | | β | 44 | 55 | 35 | 1075 | 97 | 44 | 55 | 48 |
| | | 59 | | ω | 43 | 02 | 40 | 1030 | 86 | 43 | 02 | 51 |
| | 10 | 03 | anteced. & lucid. 2<sup>arum</sup> ad *c* | | 43 | 57 | 40 | 1052 | 67 | 43 | 57 | 28 |
| | | 8 | | α | 31 | 06 | 25 | 744 | 78 | 31 | 06 | 47 |
| ♄ Maij 27 | 11 | 18 | *Polaris* & Humerus Boreus | γ | 52 | 26 | 20 | 1255 | 82 | 52 | 26 | 35 |
| ♀ Sept. 8 | 7 | 42 | *Ophiuchi Ted* & | η | 40 | 52 | 25 | 979 | 03 | 40 | 52 | 58 |
| | | 44 | | rep. | 40 | 52 | 30 | 979 | 05 | 40 | 53 | 02 |
| | | 47 | Arcturus | α | 37 | 06 | 10 | 888 | 33 | 37 | 05 | 48 |
| | | 54 | | ζ | 28 | 57 | 05 | 692 | 96 | 28 | 56 | 47 |
| | | 57 | | π | 30 | 39 | 00 | 733 | 73 | 30 | 39 | 02 |
| | | 59½ | | ο | 30 | 10 | 10 | 722 | 27 | 30 | 10 | 14 |
| | 8 | 02½ | | ξ | 30 | 36 | 10 | 732 | 51 | 30 | 35 | 57 |
| | | 06 | | ρ | 41 | 55 | 55 | 1004 | 04 | 41 | 55 | 40 |
| | | 08 | | σ | 41 | 03 | 45 | 983 | 30 | 41 | 03 | 40 |
| | | 11 | | ε | 37 | 33 | 30 | 899 | 19 | 37 | 32 | 57 |
| ♄ 9 | 7 | 43 | *Ophiuchi Ted* & | υ | 40 | 45 | 40 | 976 | 36 | 40 | 46 | 16 |
| | | 46 | | τ | 41 | 57 | 00 | 1004 | 61 | 41 | 57 | 06 |
| | | 52 | | ω | 33 | 37 | 30 | 804 | 94 | 33 | 37 | 13 |
| | | 55 | Australior, clarior, & præcedens duarum ad | *c* | 32 | 53 | 05 | 787 | 15 | 32 | 52 | 45 |
| | | 59 | | ψ | 34 | 57 | 30 | 836 | 96 | 34 | 57 | 18 |
| | 8 | 01½ | | *b* | 33 | 57 | 35 | 812 | 98 | 33 | 57 | 20 |
| | | 05 | | δ | 39 | 31 | 00 | 946 | 42 | 39 | 31 | 12 |
| | | 08 | | β | 47 | 04 | 30 | 1127 | 23 | 47 | 04 | 22 |
| | | 11 | | γ | 48 | 10 | 05 | 1153 | 48 | 48 | 10 | 07 |
| | | 14½ | | A | 47 | 43 | 35 | 1142 | 82 | 47 | 43 | 24 |
| MDCLXXXIII. | | | | | | | | | | | | |
| ♃ Maij 17 | 10 | 41 | *Lyræ lucida* – & Arcturus | | 58 | 55 | 35 | 1411 | 43 | 58 | 55 | 36 |

| ANNO CHRISTI MDCLXXXIII. Menfe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *BOOTIS.* | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Refpondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|
| ♂ Julii 10 | 9 53 | *Superior in feq. humer. Ophiuchi.* & ——— α | 52 36 45 | 1260 02 | 52 37 06 |
| | 10 00 | ——— rep. | 52 36 50 | 1260 03 | 52 37 07 |
| MDCLXXXVIII. | | | | | |
| ♂ Jan. 31 | 17 00 | *Caput Ophiuchi* ——— & Arcturus ——— | 48 06 25 | 1151 83 | 48 05 59 |
| | 5 | ——— rep. | 48 06 25 | 1151 85 | 48 06 02 |
| | 12 | *Lyræ lucida* — & Arcturus ——— | 58 55 30 | 1411 67 | 58 56 12 |

| ANNO CHRISTI MDCLXXVIII. Menfe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *Canis Majoris.* | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Refpondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|
| ☽ Feb. 18 | 8 34 | *Lucidus Pes Orionis, β* & Syrius ——— | 23 41 15 | 566 90 | 23 40 50 |
| | 40 | *Procyon* ——— & Syrius ——— | 25 40 50 | 615 04 | 25 41 26 |
| MDCLXXX. | | | | | |
| ♀ Jan. 7 | 8 09 | *Cor Hydræ* ——— & Syrius ——— | 40 17 45 | 965 04 | 40 17 54 |
| - | | *Lucidus Pes Orionis* ——— & Syrius ——— | 23 40 50 | | |
| ♂ 17 | 8 39 | *Lucidus Pes Geminorum* & Syrius ——— | 33 03 05 | 791 15 | 33 02 45 |
| MDCLXXXI. | | | | | |
| ♃ Nov. 3 | 15 29 | *Cor Hydræ* — & ——— β | 45 47 45 | 1096 85 | 45 48 10 |
| *vel* ♀ 4 | 35 | anteced. & Auftr. ad ——— ξ | 44 30 00 | 1065 85 | 44 30 29 |
| *mane.* | 37 | Borealis & fequens ad — ξ | 43 41 30 | 1046 45 | 43 41 54 |
| | 39 | Auftralior & lucidior ad ν | 42 40 00 | 1021 94 | 42 40 30 |
| | 41 | Borealior ——— ad ——— ν | 42 14 40 | 1011 88 | 42 15 18 |
| | 45 | Syrius ——— α | 40 16 55 | 564 79 | 40 17 16 |
| | 47 | ——— ι | 37 46 05 | 904 58 | 37 46 27 |
| | 50 | ——— γ | 35 47 05 | 856 67 | 35 46 56 |
| | 53 | ——— μ | 37 27 55 | 897 20 | 37 27 58 |
| | 55 | ——— θ | 37 50 15 | 905 93 | 37 49 49 |
| MDCLXXXII. | | | | | |
| ♃ Feb. 23 | 7 43 | *Cor Hydræ* — & ——— ζ | 48 36 30 | 1164 31 | 48 37 18 |
| | 48 | præcedens duarum ad ——— λ | 49 14 00 | 1179 12 | 49 14 25 |
| | 52 | fequens è duabus contig. præcedentib. & lucid. | 47 45 40 | 1144 05 | 47 46 30 |
| | 56 | ——— κ | 43 30 35 | 1042 07 | 43 30 55 |
| | 59 | ——— ε | 40 23 30 | 967 40 | 40 23 48 |
| | 8 02 | quæ fupra hanc verfus δ ——— | 39 22 15 | 943 00 | 39 22 36 |
| | 5 | ——— δ | 37 24 55 | 896 18 | 37 25 25 |
| | 7 | quæ fequitur δ ——— | 36 14 15 | 867 96 | 36 14 51 |
| | 10 | fupra hanc, Ortum verfus, Auftralior verè, & lucidior ——— | 34 43 25 | 831 65 | 34 44 02 |
| | 12 | Borealior & minor ——— | 34 34 55 | 828 28 | 34 35 36 |

| ANNO CHRISTI MDCLXXXII. Mense, Die. Styl. Vet. | Temp. App. M. H. | IN CONSTELLATIONE *Canis Majoris.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♃ Feb. 23 | 8 15 | *Cor Hydræ* — & lucidior & Borealior ad η | 35 31 35 | 850 86 | 35 32 05 |
| | | *Australior vix videri potuit propter vapores.* | | | |
| | 18 | præcedens ad ——— ο | 39 44 10 | 951 95 | 39 45 05 |
| | | *Hæc habet plurimas exiguas circumcirca.* | | | |
| | 21½ | sequens ad ——— ο | 37 42 00 | 903 60 | 37 42 30 |
| ♄ Mar. 4 | 7 30 | *Sequens Pes Orionis* & ——— ε | 25 25 55 | 608 85 | 25 25 55 |
| | 40 | ——— κ | 26 53 55 | 643 86 | 26 53 45 |
| | 46 | ——— ζ | 21 41 55 | 519 54 | 21 41 55 |
| | 50 | quæ supra ε versus δ — | 25 12 05 | 603 31 | 25 12 02 |
| | 52 | ——— δ | 25 20 45 | 606 86 | 25 20 55 |
| | 55 | quæ sequitur δ ——— | 26 43 35 | 639 84 | 26 48 39 |
| | 8 01 | duarum supra hanc Australior verè, & lucidior | 26 27 55 | 633 59 | 26 28 00 |
| | 4 | Borealior & minor ——— | 26 15 15 | 628 54 | 26 15 18 |
| | 7 | Borealior ad ——— η | 29 52 05 | 714 98 | 29 51 55 |
| | 12 | præcedens duarum ad — ο | 21 27 50 | 513 91 | 21 27 48 |
| | 14 | sequens & lucidior ad — ο | 22 52 20 | 547 34 | 22 51 46 |
| ☿ 16 | 7 40 | *Cor Hydræ* — & sequens duarum ad — ο | 37 41 45 | 902 89 | 37 42 13 |
| | 43 | præcedens duarum ad — ο | 39 43 50 | 951 88 | 39 44 54 |
| | 53 | *Sequens Pes Orionis,* & præcedens ad ——— ο | 21 28 00 | 513 91 | 21 27 48 |
| | 59 | sequens duarum ad ——— ο | 22 52 05 | 547 38 | 22 51 52 |
| | 8 03 | ——— δ | 25 21 10 | 606 92 | 25 21 05 |
| | 8 | ——— ε | 25 26 00 | 608 79 | 25 25 45 |
| MDCLXXXVIII. | | | | | |
| ☽ Jan. 30 | 8 26 | *Lucida Mandibulæ Ceti* & Syrius ——— α | 58 51 25 | 1409 57 | 58 50 57 |
| | 29 | ——— rep. | 58 51 30 | 1409 54 | 58 50 52 |

| ANNO CHRISTI MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *Canis Minoris.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Sept. 11 *vel* ☿ 12 | 15 55 | *Superior Pes Aurigæ* & Procyon ——— α | | 1122 96 | 46 53 40 |
| *mane.* | 59 | *Cornu* ♉[1] *Boreum* & eadem ——— α | | 938 78 | 39 12 02 |
| MDCLXXIX. | | | | | |
| ♀ Feb. 7 | 9 48½ | *Castor* — & ——— β | 23 40 25 | 566 96 | 23 40 57 |
| | 54 | ——— γ | 23 01 30 | 551 36 | 23 01 52 |
| | 10 01 | *Pollux* — & ——— α | 22 46 00 | 545 22 | 22 46 27 |
| | | *Castor* — & ——— β | 23 40 25 | 566 93 | 23 40 52 |
| | 13 | *Cor Leonis* — & ——— β | 39 50 00 | 953 80 | 39 49 42 |
| | 16 | ——— γ | 39 29 15 | 945 66 | 39 29 16 |
| | 23 | ——— α | 37 22 25 | 894 67 | 37 21 40 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *Canis Minoris.* | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Dec. 10 vel ♄ 11 | 15 06 | *Leonis in femore, ι,* & hujus — β | 58 19 45 | 1397 34 | 58 20 22 |
| *mane* | 8 | — rep. | 58 19 40 | 1397 29 | 58 20 15 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CASSIOPEÆ.* | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Aug. 3 | 9 52 | *Scheat Pegasi* & — β | 32 02 45 | 791 21 | 33 02 54 |
| | 56 | — Schedir, α | 33 14 30 | 796 08 | 33 15 05 |
| | 10 00 | — ζ | 30 56 35 | 740 98 | 30 57 15 |
| | 06 | — λ | 30 54 10 | 740 20 | 30 55 16 |
| | 10 | — η | 34 55 55 | 836 67 | 34 56 34 |
| | 12 | — γ | 37 45 05 | 904 17 | 37 45 25 |
| | 16⅔ | duarum ad υ Australior — | 36 20 30 | 870 42 | 36 21 05 |
| | 20 | harum Borealior — | 36 38 35 | 877 75 | 36 39 20 |
| | 23 | — δ | 40 04 10 | 959 80 | 40 04 45 |
| | 27½ | — ε | 44 47 25 | 1072 92 | 44 48 10 |
| | 35 | — κ | 37 46 00 | 904 54 | 37 46 21 |
| | 39 | — θ | 35 26 35 | 848 71 | 35 26 40 |
| | 42 | præcedens ad — μ | 34 50 35 | 834 50 | 34 51 09 |
| | 52 | — ν | 30 15 15 | 724 56 | 30 15 58 |
| | 55 | — ξ | 29 08 30 | 697 92 | 29 09 12 |
| | 58 | — ο | 28 04 25 | 672 43 | 28 05 24 |
| | 11 07 | — π | 27 09 35 | 650 55 | 27 10 34 |
| | | *In Bayeri Charta litera θ omissa est, sed à descriptione liquet apponi debere stellæ cui adscripsi.* | | | |
| ♄ 7 | 10 06 | *Medusæ Caput Algol* & — β | 33 07 05 | 792 82 | 33 06 55 |
| | 14 | — Schedir α | 28 22 05 | 679 06 | 28 22 00 |
| | 18 | — ζ | 28 11 05 | 674 76 | 28 11 13 |
| | 20 | — λ | 29 03 30 | 695 63 | 29 03 28 |
| | 24 | — η | 27 43 05 | 665 66 | 27 48 25 |
| ☽ 16 | 9 03 | *Scheat Pegasi* & — φ | 38 17 20 | 917 21 | 38 18 01 |
| | 11 | — χ | 40 20 50 | 966 32 | 40 21 06 |
| | 21 | — ι | 49::43 40 | 1191 05 | 49 44 16 |
| | 36 | supra τ exigua — | 30 48 25 | 737 85 | 30 49 22 |
| | 42 | — τ | 31 28 45 | 753 88 | 31 29 31 |
| | 49 | — ρ | 30 44 35 | 736 32 | 30 45 32 |
| | 53 | — σ | 29 24 00 | 704 21 | 29 24 57 |
| | 10 10 | *Algol Medusæ* & quæ supra τ — | 38 45 05 | 928 00 | 38 45 03 |
| | 12 | — τ | 35::48 35 | 857 26 | 35 48 06 |
| | 17 | — ρ | 34 42 10 | 830 83 | 34 41 58 |
| | 21 | — σ | 33 52 40 | 811 11 | 33 52 39 |
| | 25 | — η | 27::48 45 | | |
| | 31 | Australis ad — υ | 27 28 25 | 657 75 | 27 28 36 |
| | 35 | Borealis ad — υ | 27 22 20 | 655 30 | 27 22 28 |
| | 39 | — γ | 28 06 20 | 672 83 | 28 06 24 |
| | 43 | — κ | 31 36 20 | 756 76 | 31 36 44 |
| | 48 | — δ | 24 53 30 | 596 02 | 24 53 45 |
| | 53 | — χ | 23 26 40 | 561 30 | 23 26 46 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Cassiopeæ.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☽ Aug. 16 | 10 56 | *Algol Medusæ* & —— | φ | 24 15 55 | 581 01 | 24 16 09 |
| | 59 | —— | μ | 24 28 55 | 586 17 | 24 29 03 |
| | 11 02 | —— | θ | 23 53 05 | 571 92 | 23 53 22 |
| | 18 | *Superior & præced. in basi Trianguli, β,* } & —— | o | 20 32 45 | 492 15 | 20 33 10 |
| | 22 | —— | π | 20 04 50 | 480 98 | 20 05 01 |
| | | —— | ξ | 22 09 45 | 530 65 | 22 09 49 |
| | | —— | ν | 21 35 45 | 517 15 | 21 35 55 |
| | 30 38 | *Scheat* —— & præcedens in basi, △ⁱ —— | β | 39 49 00 | 953 63 | 39 49 16 |
| | | —— | rep. | 39 49 00 | 953 65 | 39 49 20 |
| | 45 | *Scheat* —— & Algol Medusæ —— | | 50 54 50 | 1219 43 | 50 55 22 |
| ☿ 18 | 9 40 | *Scheat* —— & ex iis quæ in ima Cathedræ parte } | f | 50 24 00 | 1207 18 | 50 24 40 |
| | 51 | —— | h | 49 22 30 | 1182 53 | 49 22 58 |
| | 59 | —— | g | 48 00 20 | 1149 80 | 48 00 54 |
| | 10 05 | —— | e | 49 25 25 | 1183 79 | 49 25 06 |
| | 9 | —— | d | 47 43 00 | 1142 85 | 47 43 28 |
| | 15 | —— | c | 46 19 10 | 1109 45 | 46 19 47 |
| | 21 | —— | b | 45 13 25 | 1083 32 | 45 14 13 |
| | 36 | —— | ξ | 29 08 20 | 697 86 | 29 09 03 |
| | 44 | —— | a | 44 43 20 | 1070 94 | 44 43 13 |
| | 59 | *Lucidum latus Persei* } & eadem —— | a | 24 49 55 | 594 68 | 24 50 22 |
| | 11 04 | —— | b | 23 18 55 | 558 21 | 23 19 02 |
| | 9 | —— | c | 22 04 25 | 528 54 | 22 04 32 |
| | 12 | —— | d | 21 39 10 | 518 58 | 21 39 31 |
| | 16 | —— | e | 23 04 55 | 552 64 | 23 05 05 |
| | 27 | —— | f | 24 16 15 | 581 28 | 24 16 50 |
| | 35 | —— | h | 25 52 45 | 619 74 | 25 53 14 |
| | 42 | —— | g | 23 51 45 | 571 42 | 23 52 07 |
| MDCLXXXII. | | | | | | |
| ♀ Jan. 27 | 8 09 | *Polaris* —— & —— | ζ | 35::27 45 | 849 05 | 35 27 31 |
| | 16 | —— | λ | 34 50 45 | 834 25 | 34 50 31 |
| | 20 | —— | α | 32 49 30 | 785 72 | 32 49 10 |
| | 29 | —— | β | 30 14 10 | 723 95 | 30 14 28 |
| | 34 | —— | γ | 28 37 05 | 685 14 | 28 37 12 |
| | 39 | —— | δ | 29 03 40 | 695 86 | 29 04 03 |
| | 46 | —— | ε | 25 36 35 | 613 33 | 25 37 09 |

| Anno Christi MDCLXXXII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CEPHEI.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♃ Jan. 26 | 7 02 | *Mirach, sive clara in cingulo Andromedæ* & —— δ | 34 43 45 | 831 75 | 34 44 16 |
| | 12 | Nebulosæ clarissima — λ | 37 13 40 | 891 63 | 37 14 03 |
| | 14 | —— ζ | 36 54 45 | 884 30 | 36 55 43 |
| | 18 | —— ε | 36 04 00 | 863 78 | 36 04 24 |
| | 27 | —— obscura, μ | 40 51 55 | 979 07 | 40 53 05 |
| | 30 | —— ν | 40 48 20 | 977 63 | 40 49 27 |
| | 33 | —— α | 44 13 40 | 1059 47 | 44 14 30 |
| | 36 | —— η | 48 00 40 | 1150 02 | 48 01 27 |
| | 41 | —— θ | 49 49 30 | 1193 49 | 49 50 22 |
| | 46 | —— ξ | 39 59 45 | 958 07 | 40 00 20 |
| | 50 | —— ι | 36 42 20 | 879 00 | 36 42 27 |
| | 54 | —— β | 45 17 10 | 1084 82 | 45 18 00 |
| | 8 00 | —— κ | 52 10 05 | 1249 50 | 52 10 46 |
| | 5 | seq. contiguarum ad — ρ | 46 11::40 | 1106 26 | 46 11 46 |
| | 11 | —— π | 42 13 30 | 1011 29 | 42 13 50 |
| | 14 | —— γ | 43 07::00 | 1032 60 | 43 07 12 |

| Anno Christi MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CETI.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Jan. 16 | 6 $22\frac{2}{3}$ | *Aldebaran,* — & nova in pectore —— o | *bis,* | 932 56 | 38 56 33 |
| | $36\frac{1}{2}$ | *Extrema Alæ Pegasi,* & eadem —— o | *bis,* | 864 38 | 36 05 55 |
| | 47 | *Præced. Humer. Orionis* & eadem —— o | | 1132 68 | 47 18 03 |
| | | —— rep. | | 1132 70 | 47 18 06 |
| | | *Lucida Arietis* & eadem —— o | | 636 74 | 26 35 49 |
| | 7 08 | —— rep. | | 636 77 | 26 35 53 |
| | 16 | *Lucida Mandibulæ* & —— o | | 307 60 | 12 50 46 |
| | | —— rep. | | 307 57 | 12 50 41 |
| | 30 | *In Capite Medusæ lucida, Algol* & eadem —— o | | 1084 56 | 45 17 20 |
| | | —— rep. | | 1084 60 | 45 17 26 |
| | | *Ejusdem magnitudinis apparuit cum lucida in Manibula, certè non minor.* | | | |
| ☿ Nov. 14 | 10 $14\frac{1}{2}$ | *Orionis Humer. præced.* & eadem —— o | | 1132 59 | 47 17 47 |
| | | *Lucis nunc erat Sextæ circitèr, crescens.* | | | |
| ♂ Dec. 11 | 7 13 | *Australis in dextra tibia Aquarii,* δ, & 3ium sub lucid. caudæ præced. | | 639 80 | 26 43 33 |
| | 17 | Australissima —— | | 649 07 | 27 06 51 |
| | 21 | Borealis —— | | 656 68 | 27 25 55 |
| | 31 | præcedens —— | | 908 91 | 37 57 16 |
| | 35 | Australissima —— | | 922 32 | 38 30 48 |
| | | Borealis —— | | 906 29 | 37 50 44 |

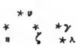
| Anno Christi MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CETI.* | | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| ♂ Oct. 15 | 8 42 | *Aldebaran* — & nova | o | 38 56 10 | 932 49 | 38 56 23 |
| | | *Lucid. Mandibulæ Ceti* & nova | o | 12 50 40 | 307 57 | 12 50 41 |
| MDCLXXIX. | | | | | | |
| ♄ Nov. 1 | 8 35 | *Aldebaran* — & duarum ad ϰ præcedens | | 22 57 55 | 549 95 | 22 58 20 |
| | 38½ | ad ϰ sequens | | 22 25 00 | 536 70 | 22 25 03 |
| | 43 | Mandibulæ lucida | α | 26 07 05 | 625 26 | 26 07 05 |
| | 46 | | γ | 30 40 10 | 734 21 | 30 40 15 |
| | 50 | | δ | 32 56 50 | 788 69 | 32 56 36 |
| | 56 | nova, lumine attenuata, | o | 38 56 20 | 932 53 | 38 56 22 |
| | 9 05 | | ζ | 48 43 40 | 1167 09 | 48 44 16 |
| | 9 | | χ | 49 18 00 | 1180 56 | 49 18 01 |
| | 13 | | τ | 53 18 00 | 1276 37 | 53 18 00 |
| | 17 | | η | 57 48 35 | 1384 70 | 57 48 48 |
| | 21 | | θ | 53 29 20 | 1280 89 | 53 29 18 |
| ♂ 11 | 7 30 | *Lucid. Mandibulæ* & Cauda Ceti | β | 40 42 45 | 975 26 | 40 43 32 |
| MDCLXXX. | | | | | | |
| ♀ Jan. 9 | 7 44 | *Lucidus Pes Geminorum* & Mandibulæ lucida, | α | 54 13 55 | 1298 76 | 54 13 58 |
| | | | rep. | 54 13 55 | 1298 76 | 54 13 58 |
| MDCLXXXI. | | | | | | |
| ☿ Oct. 5 *vel* ♃ 6 *mane* | 13 16 | *Lucidus Pes Orionis* & quæ supra | ρ | 42 35 25 | 1019 93 | 42 35 27 |
| | 18 | | ρ | 41 37 25 | 996 84 | 41 37 37 |
| | 24 | | σ | 40 18 35 | 965 52 | 40 19 06 |
| | 25½ | | π | 37 17 45 | 893 18 | 37 17 55 |
| | 28½ | | ε | 38 17 40 | 917 25 | 38 18 07 |
| MDCLXXXVIII. | | | | | | |
| ☽ Jan. 30. | 6 18 | *Lucidus Pes Geminorum* & Mandibula | α | 54 14 15 | 1298 84 | 54 14 10 |
| | 23 | *Calx Castoris,* & eadem | α | 51 51 55 | 1242 03 | 51 52 03 |
| | 25 | | rep. | 51 51 50 | 1242 04 | 51 52 05 |
| | 31 | *Lucida Arietis,* & eadem | α | 23 31 10 | 562 98 | 23 30 58 |
| | 33 | | rep. | 23 31 15 | 562 99 | 23 31 00 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Comæ Berenices.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Apr. 6 | 9 20 | *Regulus* —— & suprema —— | *a* | 36 10 50 | 866 53 | 36 11 16 |
| | 24 | contig. infra, Borealis — | *b* | 35 44 10 | 855 80 | 35 44 25 |
| | 28 | Austrina | *c* | 35 43 25 | 855 52 | 35 43 44 |
| | 32 | his Australior —— | *d* | 35 52 30 | 858 98 | 35 52 22 |
| | 38 | has antecedens —— | *f* | 34 55 55 | 836 55 | 34 56 16 |
| | | —— | *e* | 34 28 05 | 825 43 | 34 28 28 |
| | | trium ad *g*, contiguar. med. & Boreal. — | *g* | 35 58 30 | 861 50 | 35 58 40 |
| | 53½ | —— | *h* | 32 35 25 | 780 34 | 32 35 42 |
| | 10 03 | *Spica Virginis* & —— | *a* | 41 51 10 | 1002 33 | 41 51 22 |
| | | —— | *b* | 40 58 30 | 981 21 | 40 58 25 |
| | | —— | *c* | 40 30 50 | 970 23 | 40 30 54 |
| | | —— | *e* | 40 00 30 | 958 01 | 40 00 16 |
| | | —— | *f* | 40 04 50 | 959 80 | 40 04 45 |
| | | —— | *d* | 39 30 15 | 946 10 | 39 30 24 |
| | | —— | *g* | 38 05 05 | 911 93 | 38 04 50 |
| | 40 | —— | *h* | 37 47 45 | 904 99 | 37 47 28 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Coronæ Boreæ.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Jan. 7 | 17 24 | *Lucida in lumbis, Leonis, δ*, — & —— | α | 59 22 45 | 1422 27 | 59 22 42 |
| | 27 | —— | rep. | 59 22 50 | 1422 30 | 59 22 46 |
| | 30 | *Cauda Leonis, β*, — & —— | α | 53 41 00 | 1285 58 | 53 41 01 |
| | 38 | —— | rep. | 53 41 05 | 1285 65 | 53 41 11 |
| MDCLXXXI. | | | | | | |
| ♀ Apr. 8 | 10 21 | *Cauda Leonis* & —— | β | 52 17 30 | 1252 40 | 52 18 01 |
| | | —— | θ | 53 32 40 | 1282 45 | 53 33 12 |
| | 30 | —— | α | 53 41 05 | 1285 67 | 53 41 15 |
| | 32 | —— | γ | 55 29 35 | 1329 29 | 55 30 20 |
| | 36 | —— | δ | 57 01 45 | 1366 07 | 57 02 13 |
| | | —— | ε | 58 48 05 | 1408 52 | 58 48 19 |
| | | —— | ι | 59 37::15 | 1428 07 | 59 37 12 |
| | 48 | —— | ρ | 59 36 35 | 1427 94 | 59 36 38 |
| | 54 | —— | π | 55 58 35 | 1340 72 | 55 58 54 |
| | 11 00 | —— | η | 51 21 35 | 1230 17 | 51 22 17 |
| | 3 | —— | ο | 50 39 35 | 1213 35 | 50 40 09 |
| | 7 | hanc parum præcedens ad Austrum. —— | | 49 23 20 | 1182 81 | 49 23 39 |
| ♄ Maij 28 | 10 31 | *Rostrum Cygni* & Lucida Coronæ —— | | 51 53 40 | 1242 93 | 51 54 19 |
| | 33 | —— | rep. | 51 53 40 | 1242 94 | 51 54 20 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE CORVI. | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☽ Mar. 29 | 10 20 | In Femore Leonis, ι, & hujus | α | 36 51 30 | 882 63 | 36 51 33 |
| | 28 | | ε | 35 01 00 | 838 31 | 35 00 40 |
| | 32 | clar. & Austr. contig. ad | ζ | 35 33 10 | 851 25 | 35 33 03 |
| | 37 | | γ | 30 51 40 | 738 85 | 30 02 02 |
| | 44 | | δ | 31 35 00 | 756 03 | 31 34 54 |
| | 46 | | η | 31 37 00 | 756 90 | 31 37 05 |
| | 51 | | β | 38 02 25 | 910 80 | 38 01 58 |
| | 11 03 | Quæ in Boreali pede Virginis, μ, — & | α | 41 39 55 | 997 98 | 41 40 28 |
| | 6 | | ε | 40 34 05 | 971 82 | 40 34 54 |
| | 7 | lucid. contig. ad | ζ | 38 09 55 | 914 06 | 38 10 09 |
| | 9 | | β | 35 40 55 | 854 46 | 35 41 05 |
| | 12 | | γ | 37 51 45 | 906 76 | 37 51 54 |
| | 14 | | δ | 34 21 00 | 822 48 | 34 21 06 |
| | 16 | | η | 33 44 20 | 807 87 | 33 44 33 |
| | 26 | Quæ in Femore Leonis, ι, — & Pes Borealis Virginis — | μ | 52 08 10 | 1248 48 | 52 08 13 |
| | | *Distantias stellæ μ ♍ⁱˢ, á Spica & Arcturo, vide sub Constellatione ♍ⁱˢ.* | | | | |

| Anno Christi MDCLXXXII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE CRATERIS. | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♀ Mar. 31 | 10 10 | Spica Virginis & | α | 35 46 45 | 856 75 | 35 46 48 |
| | 13 | quæ sub α; lucis quintæ — | | 37 31 05 | 898 53 | 37 31 18 |
| | 17 | | β | 33 53 10 | 811 54 | 33 53 44 |
| | 20 | præced. clarior. duar. ad | λ | 30 19 00 | 726 17 | 30 20 02 |
| | 23 | | γ | 29 48 30 | 713 77 | 29 48 54 |
| | 26 | | ζ | 25 17 40 | 605 77 | 25 18 12 |
| | 29 | | η | 22 00 30 | 527::05 | 22 00 32 |
| | 34 | quæ supra has ad Bor. — | υ | 22 25 10 | 536 70 | 22 25 03 |
| | 38 | | δ | 30 50 30 | 738 61 | 30 51 16 |
| | 40 | | κ | 28 53 40 | 691 75 | 28 53 45 |
| | 43 | | ι | 26 06 40 | 625::10 | 26 06 54 |
| | | *Hæ duæ habent Comitem adjacentem.* | | | | |
| | 46 | | ε | 29 34 50 | 708 17 | 29 34 52 |
| | 48 | | θ | 26 42 00 | 639 19 | 26 42 02 |



| Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CYGNI.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Julij 24 | 10 05 | *Lucida Lyræ* & Roſtrum Cygni ——— | | 372 81 | 15 33 55 |
| MDCLXXX. | | | | | |
| ♂ Sep. 28 | 9 28 | *Markab Pegaſi* & anteced. roſtrum ad Auſt. plurimum clariſſima. | 51 19 00 | 1229 14 | 51 19 42 |
| | | clarior contiguar. ad — β | 50 57 20 | 1220 39 | 50 57 46 |
| | | ——— φ | 49 13 50 | 1179 05 | 49 14 15 |
| | 42 | *Scheat Pegaſi* & ——— κ | 48 09 20 | 1153 44 | 48 10 01 |
| | 43 | ——— ι | 46 00 30 | 1101 91 | 46 00 52 |
| | 46 | ——— θ | 44 41 45 | 1070 74 | 44 42 44 |
| | 49 | anteced. contiguar. ad — c | 43 54 45 | 1051 77 | 43 55 15 |
| | 52 | Borealior ad ——— ♆ | 43 10 25 | 1034 04 | 43 10 48 |
| | 55 | Auſtralior & ſequens ad ♆ | 42 16 55 | 1012 83 | 42 17 40 |
| | 58 | ——— e | 40 46 55 | 977 11 | 40 48 09 |
| | 10 01 | Auſtralis ad ——— o | 37 58 05 | 909 33 | 37 58 20 |
| | 03 | Borealis ad ——— o | 37 54 55 | 908 09 | 37 55 13 |
| | 05 | ——— δ | 42 35 15 | 1020 09 | 42 35 52 |
| | 07 | ——— α | 32 55 30 | 788 41 | 32 55 54 |
| | 09 | ——— γ | 35 12 20 | 843 03 | 35 12 28 |
| | 13 | duar. ad *f*, antecedens, — | 30 54 10 | 739 94 | 30 54 37 |
| | | ſequens & ſuperior ad — *f* | 29 58 15 | 717 43 | 29 58 03 |
| | 22 | Exigua perpendicularis ad lineam per has, ſupra præced. Borealem ——— | 30 04 40 | 720 10 | 30 04 46 |
| | 33 | ——— ρ | 26 21 25 | 631 27 | 26 22 10 |
| | 37 | ——— ξ | 28 32 05 | 683 15 | 28 32 13 |
| | 39 | ——— ν | 28 55 10 | 692 48 | 28 55 35 |
| | 42 | ——— σ | 24 41 45 | 591 50 | 24 42 15 |
| | 43 | ——— τ | 24 47 05 | 593 69 | 24 47 54 |
| | 46 | ——— υ | 23 28 55 | 562 42 | 23 29 35 |
| | 48 | ——— ζ | 24 13 00 | 580 08 | 24 13 50 |
| | 51 | ——— ε | 29 55 40 | 716 40 | 29 55 28 |
| | 52 | ——— λ | 29 50 20 | 714 55 | 29 50 51 |
| ♂ Oct. 5 | 8 45½ | *Markab Pegaſi* & quæ antecedit roſtrum in recta cum ea & φ ——— | 52 39 00 | 1261 14 | 52 39 54 |
| | 48½ | quæ ſupra roſtrum ad Bor. | 52 28 45 | 1257 00 | 52 29 33 |
| | | *Nullum Veſtigium Novæ ad Roſtrum, ab Hevelio, Anno* 1670. *Obſervatæ.* | | | |
| | 56 | *Aquilæ lucida* & antecedens roſtrum ad Auſtr. plurium clariſſ. | 16 40 25 | 399 33 | 16 40 16 |
| | 9 00 | quæ in recta cum Roſtro & φ | 18 37 50 | 446 20 | 18 37 33 |
| | 04 | quæ ſupra roſtrum, ad Bor. | 21 41 15 | 519 31 | 21 41 21 |
| | 07 | ——— β | 19 41 15 | 471 55 | 19 41 20 |
| | 11 | ——— φ | 21 28 15 | 514 16 | 21 28 25 |
| | 16 | ——— κ | 45 01 35 | 1078 25 | 45 01 31 |
| | 21 | ——— ι | 43 05 45 | 1031 93 | 43 05 32 |
| | 25 | ——— θ | 41 27 30 | 992 85 | 41 27 37 |
| | 28 | ——— δ | 36 18 30 | 869 33 | 36 18 16 |
| | 38 | *Cauda Delphini, ε,* & ——— θ | 40 36 00 | 972 38 | 40 36 18 |
| | 44 | contiguar. ad *c*, anteced.— | 40 36 40 | 972 66 | 40 37 00 |
| | 48 | Borealior ad ——— ♆ | 42 33 05 | 1018 96 | 42 33 01 |
| | 52 | Auſtralior & ſeq. ad — ♆ | 41 48 55 | 1001 57 | 41 49 29 |
| | 53½ | ——— e | 39 21 05 | 942 25 | 39 20 44 |
| | 57 | Borealis ad ——— o | 36 35 30 | 876 23 | 36 35 31 |
| | 10 00 | Auſtralis ad ——— o | 35 40 20 | 854 12 | 35 40 13 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CYGNI.* | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. | Cent. | ° | ′ | ″ | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ♂ Oct. 5 | 10 05½ | *Cauda Delphini, ε,* & ——— γ | 29 | 03 | 00 | 695 | 37 | 29 | 02 | 40 | |
| | 10 | ——— η | 25 | 12 | 20 | 603 | 53 | 25 | 12 | 35 | |
| | 14 | ——— χ | 24 | 52 | 20 | 595 | 50 | 24 | 52 | 27 | |
| ♃ 7 | 7 08 | *Scheat Pegasi,* & Delphini Cauda ——— ε | 38 | 57 | 45 | 933 | 26 | 38 | 58 | 12 | |
| | 11 | ——— rep. | 38 | 57 | 35 | 933 | 23 | 38 | 58 | 07 | |
| | 14 | Aquilæ lucida ——— | 49 | 16 | 00 | 1179 | 93 | 49 | 16 | 27 | |
| | | ——— rep. | 49 | 16 | 05 | 1180 | 03 | 49 | 16 | 42 | |
| | 22 | ——— γ | 35 | 12 | 05 | 842 | 92 | 35 | 12 | 12 | |
| | 29 | ——— χ | 42 | 17 | 30 | 1013 | 05 | 42 | 18 | 13 | |
| | | ——— η | 40 | 08 | 55 | 961 | 57 | 40 | 09 | 12 | |
| | | præcedens trium ad ——— b | 38 | 03 | 25 | 911 | 27 | 38 | 03 | 10 | |
| | 42 | media ad ——— b | 37 | 27 | 30 | 896 | 92 | 37 | 27 | 13 | |
| | 45 | hanc sequens, ultima trium | 36 | 26 | 30 | 872 | 56 | 36 | 26 | 21 | |
| | 49 | ——— p | 35 | 51 | 00 | 858 | 08 | 35 | 50 | 03 | |
| | | Qu. *annon hæc nova sit Anni* 1600. | | | | | | | | | |
| | 55 | *Markab Pegasi,* & ——— φ | 49 | 13 | 50 | 1179 | 03 | 49 | 14 | 12 | |
| | 57 | quæ supra Rostrum ——— | 52 | 28 | 50 | 1257 | 02 | 52 | 29 | 35 | |
| | 8 01 | quæ in recta cum Rostro & φ | 52 | 39 | 10 | 1261 | 24 | 52 | 40 | 09 | |
| | 15 | *Sheat Pegasi,* & Australis ad ——— π | 25 | 50 | 15 | 618 | 70 | 25 | 50 | 37 | 5 |
| | | Borealis ad ——— π | 27 | 44 | 30 | 664 | 23 | 27 | 44 | 51 | 5 |
| | 25 | ——— g | 26 | 07 | 00 | 625 | 18 | 26 | 06 | 52 | 6 |
| | | ——— ρ | 24 | 55 | 15 | 596 | 60 | 24 | 55 | 12 | 4 |
| | | ——— A | 26 | 21 | 30 | 631 | 01 | 26 | 21 | 30 | 5 |
| | 40 | ——— ξ | 28 | 32 | 20 | 683 | 16 | 28 | 32 | 15 | 3 |
| | | inter ς & α, 2ar. præc. & Aust. | 31 | 04 | 20 | 743 | 87 | 31 | 04 | 30 | 5 |
| | 48 | harum sequens & Borealis | 30 | 38 | 55 | 733 | 77 | 30 | 39 | 07 | 5 |
| | 50 | quæ in recta cum α & f inter eas ——— | 32 | 00 | 00 | 766 | 01 | 31 | 59 | 53 | |
| | | quæ triangulum efficit cum ε & λ, ad Occasum | 32 | 28 | 40 | 777 | 60 | 32 | 28 | 51 | |
| | 9 04 | *Cauda Delphini, ε,* — & præcedens trium ad b ——— | 25 | 26 | 05 | 608 | 86 | 25 | 25 | 57 | 6+ |
| | | media ——— ad b ——— | 26 | 05 | 10 | 624 | 48 | 26 | 05 | 06 | 6+ |
| | | ultima, hanc sequens, ad b | 25 | 50 | 10 | 618 | 54 | 25 | 50 | 13 | 6+ |
| | 15 | ——— p | 26 | 56 | 50 | 645 | 09 | 26 | 56 | 51 | 6+ |
| | | *Os Pegasi,* — & ——— σ | 30 | 06 | 50 | 721 | 00 | 30 | 07 | 01 | 4 |
| | 31 | ——— τ | 28 | 54 | 00 | 691 | 81 | 28 | 53 | 54 | 4 |
| | 37 | ——— υ | 32 | 58 | 10 | 789 | 27 | 32 | 58 | 03 | |
| | | ——— ξ | 35 | 05 | 50 | 840 | 31 | 35 | 05 | 40 | |
| | 42 | ——— A | 34 | 31 | 20 | 826 | 76 | 34 | 31 | 48 | |
| | 45 | ——— ρ | 35 | 47 | 30 | 856 | 86 | 35 | 47 | 05 | |
| | 48 | ——— g | 36 | 47 | 00 | 880 | 87 | 36 | 47 | 09 | |
| | 52 | superior & sequens ad — f | 38 | 35 | 35 | 924 | 16 | 38 | 35 | 25 | 5— |
| | 54 | ——— præcedens ad f | 38 | 47 | 15 | 928 | 94 | 38 | 47 | 24 | 5— |
| | 57 | exig. perpend. ad lineam per has sup. præc. & Bor. | 37 | 25 | 25 | 896 | 05 | 37 | 25 | 06 | 5— |
| | 10 00 | quæ in recta inter α & f — | 38 | 06 | 30 | 912 | 57 | 38 | 06 | 25 | 6+ |
| | 02 | duar. inter ξ & α, sequens | 36 | 13 | 10 | 867 | 26 | 36 | 13 | 06 | 6+ |
| | 05 | harum præcedens ——— | 36 | 07 | 50 | 864:: | 07 | 36 | 05 | 07 | |
| | 08½ | ——— α | 37 | 52 | 55 | 907 | 03 | 37 | 52 | 34 | 1 |
| ☽ 11 | 8 47 | *Scheat Pegasi* & ejusdem Os ——— | 26 | 04 | 25 | 624 | 55 | 26 | 05 | 16 | |
| | 50 | ——— rep. | 26 | 04 | 20 | 624 | 51 | 26 | 05 | 10 | |
| | 54 | Markab ——— | 20 | 21 | 20 | 487 | 77 | 20 | 22 | 07 | |
| | | ——— rep. | 20 | 21 | 15 | 487 | 72 | 20 | 22 | 00 | |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *CYGNI.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Oct. 11 | 9 04 | *Scheat Pegasi* & duarum inter ξ & α præcedens & Austrina — | 31 04 20 | 743 89 | 31 04 33 |
| | 14 | quæ in recta inter α & f | 32 00 05 | 766 01 | 31 59 52½ |
| | 19 | ——— p | 35 50 45 | 858 40 | 35 50 55 |
| | | ——— rep. | 35 50 50 | 858 43 | 35 51 00 |
| ♄ 16 | 8 52 | *Os Pegasi* — & ——— λ | 29 33 30 | 707 61 | 29 33 28 |
| | 55 | ——— ε | 27 30 20 | 658 47 | 27 30 25 |
| | 58 | quæ triangulum efficit cum ε & λ, ad Occasum | 30 00 00 | 718 24 | 30 00 06 |
| | 9 02 | ——— ζ | 21 37 05 | 517 64 | 21 37 09 |
| | 05 | ——— υ | 25 43 20 | 615 91 | 25 43 37 |
| | 10 | ——— μ | 18 53 10 | 452 37 | 18 53 09 |
| | 16 | *Scheat Pegasi* & ——— μ | 17 30 35 | 419 62 | 17 31 c6 |
| MDCLXXXII. | | | | | |
| ♃ Sept. 21 | 9 42 | *Scheat Pegasi* & Rostrum ——— | 46 36 15 | 1116 10 | 46 36 27 |
| | 45 | ——— rep. | 46 36 13 | 1116 09 | 46 36 25 |
| | 10 33 | *Os Pegasi* — & Rostrum ——— | 36 10 40 | 866 31 | 36 10 44 |
| MDCLXXXV. | | | | | |
| ♀ Oct. 2 | 9 23 | *Lyræ lucida* & Cauda Cygni ——— | 23 52 10 | 571 62 | 23 52 38 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *DELPHINI.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Junij 23 | 11 25 *circit.* | *Caput Ophiuchi*, & hujus ——— α | 44 47 20 | 1072 68 | 44 47 34 |
| ♂ 24 | 10½ *cir.* | *Caput Ophiuchi* & ——— α | 44 47 25 | 1072 63 | 44 47 27 |
| | | ——— γ | 46 28 45 | 1112 99 | 46 28 39 |
| | | ——— δ | 45 45 00 | 1095 78 | 45 45 28 |
| | | ——— β | 44 20 30 | 1061 96 | 44 20 45 |
| | | ——— ζ | 43 48 35 | 1049 04 | 43 48 24 |
| | | ——— η | 43 35 00 | 1043 69 | 43 34 58 |
| | | ——— θ | 44 43 10 | 1071 06 | 44 43 31 |
| | | ——— ε | 43 34 35 | 1043 47 | 43 34 25 |
| | | ——— ι | 44 40 35 | 1070 05 | 44 41 00 |
| | 11 21 | ——— κ | 45 08 25 | 1080 99 | 45 08 22 |
| MDCLXXX. | | | | | |
| ♀ Sept. 17 | 8½ *circ.* | *Humerus Aquarij præced.* & ——— γ | 24 22 20 | 583 59 | 24 22 36 |
| ♄ 18 | 7 28 | *Humerus Aquarii præcedens* & ——— α | 25 01 25 | 599 06 | 25 01 22 |
| | 33 | ——— δ | 23 49 25 | 570 54 | 23 49 55 |
| | 38 | ——— β | 24 12 10 | 579 44 | 24 12 13 |
| | 48 | ——— ζ | 24 34 25 | 588 31 | 24 34 25 |
| | 52 | ——— θ | 22 59 25 | 550 29 | 22 59 10 |
| | 55 | ——— η | 23 27 25 | 561 54 | 23 27 22 |
| | 8 00 | ——— ι | 21 34 40 | 516 72 | 21 34 51 |
| | 03 | ——— ε | 22 15 20 | 532 81 | 22 15 16 |

| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *DELPHINI.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Sept. 18 | 8 06 | *Humerus Aquarij præcedens* & ——— κ | 20 23 25 | 488 41 | 20 23 45 |
| | 13 | Caput Ophiuchi ——— | 61 31::20 | 1473 94 | 61 31 55 |
| ♄ Oct. 16 | 7 01 | *Humerus Aquarij præcedens* & Ophiuchi Caput ——— | 61 31 15 | 1473 94 | 61 31 55 |

| Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *DRACONIS.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Dec. 19 | 6 58 | *Urſæ Majoris α, præced. in* ☐° & hujus vel Herculis ——— ι | 54 21 15 | 1301 55 | 54 20 57 |
| | 7 07 | quæ eſt juxta γ ——— | 51 24::40 | 1231 19 | 51 24 51 |
| | 12 | ——— γ | 51 31 50 | 1233 98 | 51 31 51 |
| | 22 | ——— β | 48 22 35 | 1159 61 | 48 23 00 |
| | 29 | ——— ξ | 46 59 40 | 1125 45 | 46 59 55 |
| | 34 | media, inter contig. 2as ad ν | 46 23 30 | 1110 82 | 46 23 13 |
| | 40 | ——— c | 52 05 20 | 1247 45 | 52 05 39 |
| | 43 | ———::d | 50 08 35 | 1200 81 | 50 08 42 |
| | 46 | ——— b | 47 57 55 | 1148 72 | 47 58 10 |
| | 50 | ——— o | 49 29 50 | 1185 56 | 49 30 32 |
| | 8 00 | ——— π | 46 05 30 | 1103 88 | 46 05 48 |
| | 03 | ——— δ | 44 01 20 | 1054 47 | 44 02 00 |
| | 13 | ——— e | 48 58 30 | 1173 01 | 48 59 07 |
| | 17 | ——— ρ | 46 19 35 | 1109 56 | 46 20 03 |
| | 21 | ——— ι | 43 35 20 | 1044 18 | 43 36 13 |
| | 24 | ——— σ | 43 14 00 | 1035 45 | 43 14 21 |
| | 27 | ——— τ | 39 37 10 | 949 12 | 39 37 58 |
| | 30 | ——— υ | 40 10 50 | 962 43 | 40 11 21 |
| | 34 | ——— χ | 37 17 45 | 892 98 | 37 17 25 |
| | 37 | ——— φ | 38 17 35 | 916 98 | 38 17 27 |
| | 43 | clarior & Borealior ad ψ | 35 26 45 | 848 64 | 35 25 30 |
| ♂ 27 | 6 30 | *Ancon Alæ Borealis Cygni, δ,* & ——— f | 28 39 10 | 685 98 | 28 39 18 |
| | 40 | ——— ω | 28 40 00 | 686 16 | 28 39 45 |
| | | ——— ζ | 29 22 50 | 703 45 | 29 23 03 |
| | | lucidior contiguarum ad b | 30 24 00 | 727 93 | 30 24 27 |
| | 54 | ——— g | 31 44 30 | 760 05 | 31 44 58 |
| | | ——— A | 34 10 20 | 818 06 | 34 10 03 |
| | | Comes hujus Borealior ——— | 34 48 00 | 833 16 | 34 47 48 |
| | | Auſtralior & remotior in recta cum his & ψ | 35 52 30 | 858 77 | 35 51 51 |
| | 8 04 | ——— η | 33 03 30 | 791 62 | 33 03 55 |
| | | ——— θ | 35 42 50 | 855 39 | 35 43 24 |
| | | ——— ι | 40 27 15 | 968 95 | 40 27 42 |
| | 19 | ——— α | 48 19 00 | 1157 31 | 48 19 45 |
| | | ——— i | 49 30 20 | 1185 56 | 49 30 33 |

| ANNO CHRISTI MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE DRACONIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Dec. 27 | 8 26 | *Ancon Alæ Borealis Cygni*, δ, & ——— κ | 53 49 30 | 1283 88 | 53 49 16 |
| | | Comes hujus ad Austrum— | 54 23 45 | 1302 58 | 54 23 31 |
| | | *Habet enim Comitem ad Boream magis propinquum, nudis oculis visibilem.* | | | |
| | 35 | ——— λ | 58 14 50 | 1395 30 | 58 15 16 |
| | | Comes hujus in consequentia | 57 58 25 | 1388 46 | 57 58 12 |

| ANNO CHRISTI MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE EQUULEI. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Oct. 29 | 7 01 | *Extrema Alæ Pegasi* & præcedens Humerus Aquarii | 45 06 05 | 1080 34 | 45 06 40 |
| | 05 | Equiculi ——— α | 44 40 15 | 1070 08 | 44 41 05 |
| | 10 | ——— β | 42 33 25 | 1019 36 | 42 34 01 |
| | 13 | clarior contiguarum ad γ | 44 49 10 | 1073 60 | 44 49 52 |
| | 16 | ——— δ | 43 50 50 | 1050 13 | 43 51 08 |
| | 21 | præcedens Humerus ♒ii rep. | 45 05 50 | 1080 26 | 45 06 33 |
| | 30 | *Humer. ♒ii præcedens* & ——— δ | 16 10 20 | 387 35 | 16 10 16 |
| | 33 | clarior & Borealior ad γ | 16 34 45 | 397 12 | 16 34 45 |
| | 40 | ——— β | 12 34 05 | 301 00 | 12 34 10 |
| | 44 | parvula hanc anteced. ad Bor. | 13 11 15 | 315 84 | 13 11 20 |
| | 47 | ——— α | 11 31 10 | 275 84 | 11 31 12 |
| | 55 | *Extrema Alæ Pegasi* & parvula anteced. β ad Bor. | 42 51 20 | 1026 01 | 42 50 42 |
| MDCLXXXV. | | | | | |
| ♀ Oct. 2 | 10 10 | *Inter* γ — & ——— δ | 1 00 50 | 24 37 | 1 01 03 |

| ANNO CHRISTI MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE ERIDANI. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Feb. 10 | 6 28 | *Procyon* — & prima fluminis ——— λ | 40 02 20 | 953 97 | 40 02 40 |
| ♄ 14 | 7 15 | *Aldebaran* — & ——— λ | 23 00 20 | 550 74 | 23 00 20 |
| ♂ 17 | 8 05 | *Aldebaran* — & ——— λ | 23 00 30 | 550 74 | 23 00 20 |
| MDCLXXXI. | | | | | |
| ♀ Oct. 5 *vel* ☿ 6 *mane.* | 13 45 | *Lucidus Pes Orionis* & ——— ν | 34 08 40 | 817 43 | 34 08 28 |
| | 47 | trium ad ρ antecedens— | 33 01 40 | 790 68 | 33 01 35 |
| | 51 | ——— media | 32 38 40 | 781 42 | 32 38 24 |
| | 53 | ——— ultima ad ρ | 32 16 00 | 772 22 | 32 15 24 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Eridani.* | | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| ☿ Oct. 5 vel ♃ 6 mane. | 13 55 | *Lucidus Pes Orionis* & ——— | ζ | 29 19 30 | 702 44 | 29 20 32 |
| | 57 | ——— | ε | 25 02 30 | 599 42 | 25 02 16 |
| | 14 00 | ——— | δ | 22 35 15 | 540 81 | 22 35 22 |
| | 02 | ——— | π | 22 05 55 | 529 11 | 22 05 58 |
| | 04 | ——— | γ | 19 30 45 | 467 46 | 19 31 03 |
| | 15½ | *Procyon* — & ——— | A | 53 23 30 | 1278 66 | 53 23 44 |
| | 19 | ——— | d | 51 14 00 | 1227 15 | 51 14 44 |
| | 22 | ——— Australis ad ——— | o | 52 18 30 | 1252 76 | 52 18 55 |
| | 24 | Borea & antecedens ad | • | 53 13 30 | 1274 64 | 53 13 44 |
| | 28 | ——— | ξ | 49 43 40 | 1191 03 | 49 44 13 |
| | 31 | ——— | ν | 46 33 40 | 1115 15 | 46 34 03 |
| | 34 | ——— | c | 46 06 00 | 1104 00 | 46 06 03 |
| | 37 | ——— | μ | 44 17 10 | 1060 82 | 44 17 52 |
| | 40 | ——— | ω | 42 57 45 | 1029 00 | 42 58 10 |
| | 44 | ——— | b | 42 02 55 | 1007 12 | 42 03 22 |
| | 47 | ——— | ψ | 41 21 55 | 990 88 | 41 22 40 |
| | 50 | ——— | β | 39 15 15 | 940 12 | 39 15 24 |
| | 53 | ——— | λ | 40 02 15 | 958 99 | 40 02 44 |
| MDCLXXXII. | | | | | | |
| ♄ Jan. 28 | 7 11 | *Syrij, β,* ——— & è novem ad τ ordine sibi succedentes — | 1a | 51 29 15 | 1233 03 | 51 29 27 |
| | 15 | ——— | 2a | 49 45 00 | 1191 60 | 49 45 39 |
| | 20 | ——— | 3a | 46 54::20 | 1123 56 | 46 55 10 |
| | 25 | ——— | 4a | 43 05 50 | 1032 18 | 43 06 09 |
| | 28 | ——— quæ sub quarta est. | | 43 16::20 | 1036 49 | 43 16 57 |
| | 30 | ——— | 5a | 39 47 00 | 953 05 | 39 47 50 |
| | 33 | ——— | 6a | 36 43 15 | 879 63 | 36 44 02 |
| | 35 | ——— | 7a | 36 33 55 | 875 89 | 36 34 40 |
| | 38 | ——— | 8a | 35 13 40 | 843 63 | 35 13 58 |
| | 40 | ——— | 9a | 33 45 35 | 808 84 | 33 46 58 |

| Anno Christi MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Herculis.* | | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| ♀ Junij 15 | 10 07 | *Arcturus* — & Caput ——— | α | | 1127 16 | 47 04 12 |
| ☽ 18 | 10 00 | *Lyræ lucida* — & Caput ——— | α | | 726 98 | 30 21 58 |
| | 48 | ——— | ζ | | 582 32 | 24 19 27 |
| | 11 01 | *Caput Ophiuchi* & ——— | ζ | | 541 42 | 22 36 48 |
| MDCLXXVIII. | | | | | | |
| ☿ Julij 17 | 10 40 | *Quæ in Ancone Alæ Aust. Cygni,* & ——— | δ | 46 20 40 | 1109 88 | 46 20 51 |
| | | ——— | λ | 42 35 35 | 1020 10 | 42 35 54 |
| | 45 | ——— | μ | 38 41 00 | 926 47 | 38 41 16 |
| | 50 | ——— | ξ | 35 54 00 | 859 37 | 35 53 28 |
| | 55 | ——— | ν | 35 26 25 | 848 62 | 35 26 30 |
| | 59 | ——— | ο | 34 00 45 | 814 50 | 34 01 09 |
| | 11 03 | | | | | |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. | M. | In Constellatione HERCULIS. | | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. | Cent. | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ♄ Aug. 6 | 9 | 19 | *Rostrum Cygni* & —— | ζ | 36 | 40 | 10 | 878 | 38 | 36 | 40 | 54 |
| | | 24 | —— | ε | 32 | 43 | 40 | 783 | 67 | 32 | 44 | 03 |
| ☽ 22 | 8 | 43 | *Rostrum Cygni* & —— | d | 32 | 21 | 00 | 774 | 62 | 32 | 21 | 24 |
| | | 46 | proxima ad π —— | c | 31 | 06 | 40 | 745 | 04 | 31 | 07 | 25 |
| | | | *Alia est perexigua inter* c *&* d, *non observata.* | | | | | | | | | |
| | | 49 | —— | π | 29 | 48 | 00 | 713 | 55 | 29 | 48 | 21 |
| | | 52 | —— | e | 29 | 20 | 40 | 702 | 73 | 29 | 21 | 15 |
| | | 55 | —— | ρ | 28 | 08 | 20 | 673 | 86 | 28 | 08 | 58 |
| | | 58 | —— | ω | 28 | 21 | 40 | 679 | 19 | 28 | 22 | 20 |
| | 9 | 03 | —— | ψ | 29 | 03 | 30 | 695 | 88 | 29 | 04 | 06 |
| | | 06 | —— | θ | 21 | 52 | 40 | 524 | 00 | 21 | 53 | 07 |
| | | 13 | lucidiss. & seq. 3ium ad | f | 23 | 23 | 55 | 560 | 31 | 23 | 24 | 18 |
| | | 17 | —— | ι | 28 | 22 | 00 | 679 | 25 | 28 | 22 | 28 |
| | | 26 | —— | n | 36 | 20 | 25 | 870 | 44 | 36 | 21 | 03 |
| | | 29 | —— | g | 39 | 18 | 35 | 941 | 53 | 39 | 18 | 55 |
| | | 32 | —— | σ | 38 | 21 | 35 | 918 | 82 | 38 | 22 | 03 |
| | | 36 | —— | τ | 41 | 28 | 05 | 993 | 27 | 41 | 28 | 40 |
| | | 39 | —— | υ | 44 | 20 | 45 | 1062 | 27 | 44 | 21 | 32 |
| | | 42 | —— | φ | 43 | 11 | 45 | 1034 | 55 | 43 | 12 | 06 |
| | | 44 | —— | χ | 46 | 01 | 30 | 1102 | 34 | 46 | 01 | 57 |
| | | 49 | anteced. contiguarum ad | ψ | 50 | 06 | 40 | 1200 | 22 | 50 | 07 | 13 |
| | | 55 | harum sequens —— | | 49 | 56 | 55 | 1196 | 29 | 49 | 57 | 22 |
| | | 57 | Informis in recta cum φ & τ ad Boream | a | 38 | 55 | 25 | 932 | 31 | 38 | 55 | 50 |
| | 10 | 00 | Medietas inter 2as contiguas inter hanc & polum, 2½ gr. circ. à τ | b | 40 | 33 | 45 | 971 | 69 | 40 | 34 | 35 |
| | | 05 | ipsam (*a*) sequens in recta fere cum υ & τ | c | 36 | 25 | 05 | 872 | 14 | 36 | 25 | 18 |
| ♃ Sept. 1 | 8 | 33 | *Antinoi Manus sequens*, θ, & —— | o | 57 | 10 | 25 | 1369 | 56 | 57 | 10 | 57 |
| | | 39 | —— | n | 54 | 57 | 45 | 1316 | 54 | 54 | 58 | 27 |
| | | 44 | —— | m | 52 | 51 | 25 | 1266 | 02 | 52 | 52 | 06 |
| | | 47 | —— | l | 51 | 10 | 25 | 1225 | 64 | 51 | 10 | 57 |
| | | 54 | —— | k | 50 | 45 | 10 | 1215 | 78 | 50 | 46 | 13 |
| | | 58 | —— | ι | 52 | 02 | 15 | 1246 | 31 | 52 | 02 | 48 |
| | 9 | 05 | —— | ω | 57 | 50 | 20 | 1385 | 44 | 57 | 50 | 39 |
| | | 11 | —— | b | 55 | 40 | 00 | 1333 | 42 | 55 | 40 | 39 |
| | | 15 | in Tiara Austrasis —— | | 48 | 03 | 15 | 1151 | 02 | 48 | 03 | 57 |
| | | 17 | —— Borea —— | | 48 | 53 | 45 | 1171 | 22 | 48 | 54 | 39 |
| | | | *Alia Telescopio videtur inter hanc & Australem, duabus contiguis constans.* | | | | | | | | | |
| ♄ 3 | 8 | 45 | *Quæ in Ancone Alæ Cygni Austrinæ* & —— | b | 33 | 34 | 50 | 804 | 06 | 33 | 35 | 01 |
| | | 47 | * * * —— | A | 32 | 21 | 10 | 774 | 62 | 32 | 21 | 24 |
| | | 51 | *t Australis trium ad t, nudo oculo visibilium —— | | 31 | 12 | 00 | 747 | 14 | 31 | 12 | 40 |
| | 9 | 17 | *Os Pegasi* — & —— in ramis —— | 1ª | 53 | 31 | 40 | 1282 | 01 | 53 | 32 | 06 |
| | | 20 | —— | 2ª | 54 | 34 | 00 | 1306 | 94 | 54 | 34 | 25 |
| | | 22 | —— | 5ª | 54 | 20 | 00 | 1301 | 24 | 54 | 20 | 10 |

| Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *HERCULIS.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Sept. 3 | 9 24 | *Os Pegaſi* — & in ramis —— 3ª | 52 50 00 | 1265 36 | 52 50 27 |
| | 28 | —— 6ª | 54 46 00 | 1263 76 | 52 45 27 |
| | 31 | —— 4ª | 53 33 30 | 1282 71 | 53 33 51 |
| | 33 | media trium in recta contiguarum ad —— 9am | 54 04 50 | 1295 29 | 54 05 18 |
| | 34 | —— 8ª | 54 47 30 | 1312 34 | 54 47 57 |
| | 38 | —— 7ª | 49 27 20 | 1184 50 | 49 27 42 |
| | 39 | hanc antecedens parva — | 50 14 40 | 1208 32 | 50 27 32 |
| ♃ 29 | 8 00 | *Quæ in Ancone Alæ Auſtrinæ Cygni* & —— *b* | 33 34 50 | 804 20 | 33 35 22 |
| | 05 | —— A | 32 21 10 | 774 71 | 32 21 38 |
| | 12 | Auſtralis trium ad —— *r* | 31 12 00 | 747 18 | 31 12 47 |
| | 18 | *Antinoi Manus ſequens, θ,* & in Tiara Auſtralis —— | 48 03 25 | 1150 99 | 48 03 52 |
| | 23 | —— Borealiſſima | 48 53 35 | 1171 11 | 48 54 21 |
| ♀ 30 | 7 30 | *Antinoi, θ,* — & Herculis —— *ω* | 57 50 05 | 1385 43 | 57 50 37 |
| MDCLXXXVIII. | | | | | |
| ♂ Jan. 31 | 16 48 | *Vindemiatrix* & Caput Herculis —— | 61 28 00 | 1472 44 | 61 28 09 |
| | 51 | —— rep. | 61 28 05 | 1472 49 | 61 28 16 |
| | 56 | *Arcturus* — & Caput Herculis —— | 42 54 05 | 1027 09 | 42 53 24 |
| | 58 | —— rep. | 42 54 05 | 1027 09 | 42 53 24 |

| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *HYDRÆ.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Mar. 23 | 8 32 | *Orionis Humerus ſequens* & Cor —— *α* | 55 18 40 | 1324 74 | 55 18 57 |
| | 35 | —— rep. | 55 18 40 | 1324 68 | 55 18 48 |
| | 9 26 | *Prima Alæ Auſtrinæ Virginis, β,* & —— θ | 39 00 35 | 934 17 | 39 00 28 |
| | 31½ | —— *σ* | 47 53 20 | 1146 97 | 47 53 48 |
| | 34 | —— *η* | 46 46 40 | 1120 26 | 46 46 54 |
| | 37 | —— *δ* | 48 13 25 | 1154 95 | 48 13 50 |
| | 39 | —— *ε* | 45 59 40 | 1101 56 | 46 00 00 |
| | 42 | —— *ρ* | 45 33 40 | 1091 27 | 45 34 10 |
| | 47 | —— *ζ* | 43 50 25 | 1049 89 | 43 50 32 |
| | 50 | —— *ω* | 41 09 25 | 985 92 | 41 10 15 |
| ☿ 24 | 10 35 | *Virginis, γ,* — & —— *ζ* | 56 59 45 | 1365 28 | 57 00 15 |
| | | —— rep. | 56 59 45 | 1365 31 | 57 00 20 |
| ☿ Apr. 7 | 8 44 | *Virginis γ, ſive ſequens in ſiniſtra Ala* & in eductione colli Hydræ θ | 52 00 40 | 1245 60 | 52 01 01 |

| Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *HYDRÆ.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Apr. 7 | 8 52¼ | *Cauda Leonis* & | σ | 48 14 20 | 1155 43 | 48 15 01 |
| | 57 | | η | 47 09 40 | 1129 55 | 47 10 10 |
| | 59 | | δ | 47 52 10 | 1146 55 | 47 52 45 |
| | 9 01 | | ε | 45 28 50 | 1089 43 | 45 29 33 |
| | 04 | | ρ | 45 14 40 | 1083 76 | 45 15 20 |
| | 06 | | ζ | 43 32 40 | 1042 89 | 43 32 59 |
| | 08 | | ω | 41 14 05 | 987 87 | 41 15 07 |
| | 10 | | θ | 40 07 25 | 961 06 | 40 07 54 |
| | 39 | *Castor* & | σ | 32 17 15 | 772 78 | 32 16 48 |
| | 43½ | | η | 32 44 20 | 783::66 | 32 44 01 |
| | 47 | | δ | 30 03 05 | 719 44 | 30 03 06 |
| | 50 | | ε | 30 32 20 | 731 11 | 30 32 25 |
| | 54½ | | ζ | 32 05 55 | 768 14 | 32 05 12 |
| | 10 01 | | ω | 34 16 55 | 820 72 | 34 16 42 |
| | 04 | | θ | 37 34 30 | 903 33 | 37 34 20 |
| | 09 | Infima ad | τ | 44 01 55 | 1054 44 | 44 01 55 |
| | 13 | Superior ad | τ | 43 11 45 | 1034 25 | 43 11 20 |
| | 16 | | ι | 44 22 00 | 1062 56 | 44 22 15 |
| ♀ Dec. 10 | 12 53 | *Infima in Scuto Orionis tertia* & hujus | ρ | 57 27 20 | 1376 43 | 57 28 07 |
| | 13 00 | | rep. | 57 27 30 | 1376 51 | 57 28 20 |
| | 04 | *Orionis, z,* — & | ζ | 60 12 05 | 1442 27 | 60 12 40 |
| | 06 | | rep. | 60 12 00 | 1442 21 | 60 12 31 |
| | 17½ | *Humer. præcedens Orionis* & | θ | 57 14 20 | 1371 14 | 57 14 54 |
| | 14 57 | *Orionis in Cingulo, præced. δ,* & Cor | α | 59 13 35 | 1418 78 | 59 13 59 |
| | 59 | | rep. | 59 13 40 | 1418 83 | 59 14 06 |
| MDCLXXXI. | | | | | | |
| ♂ Mar. 8 | 8 58 | *Cauda Leonis* & | ι | 35 40 00 | 853 97 | 35 39 51 |
| | 9 01 | Superior ad | τ | 37 26 30 | 896 48 | 37 26 10 |
| | 04 | Inferior ad | τ | 38 47 15 | 929 13 | 38 47 52 |
| MDCLXXXII. | | | | | | |
| ♀ Mar. 31 | 9 45½ | *Spica Virginis* & quæ præcedit κ 6^æ^ lucis | | 54 48 20 | 1312 55 | 54 48 28 |
| | 48 | | κ | 52 04 45 | 1247 20 | 52 05 01 |
| | 50 | | υ | 48 51 40 | 1170 21 | 48 52 06 |
| | 52 | | λ | 47 34 15 | 1139 13 | 47 34 10 |
| | 54 | Comes hujus perexigua paulo Austr. lucis fere 7^æ^ | | 47 39 40 | 1141 35 | 47 39 43 |
| | 57 | | μ | 43 43 20 | 1047 08 | 43 43 28 |
| | 59 | | φ | 40 43 45 | 975 71 | 40 44 39 |
| | 10 02 | | ν | 38 04 55 | 911 93 | 38 04 50 |
| | 04 | | b | 38 46 55 | 929 01 | 38 47 35 |
| MDCLXXXVIII. | | | | | | |
| ♄ Mar. 17 | 11 14 | *Virginis β* — & | ε | 46 00 10 | 1101 47 | 45 59 46 |
| | 19 | *Cauda Leonis* & eadem | ε | 45 29 05 | 1089 36 | 45 29 22 |

| Anno Christi MDCLXXIX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *LYRÆ.* | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Junij 21 | 10 53 | *Lucida Coronæ* & hujus | γ | 44 20 00 | 1062 01 | 44 20 54 |
| | | | β | 42 25 55 | 1016 30 | 42 26 22 |
| | | Auſtralior & clarior ad | ν | 42 27 25 | 1016 86 | 42 27 46 |
| | | | λ | 44 37 25 | 1068 85 | 44 37 58 |
| | | | η | 46 52 50 | 1122 96 | 46 53 40 |
| | 11 10 | | θ | 47 26 20 | 1136 20 | 47 26 50 |
| | | | ι | 45 45 20 | 1096 06 | 45 46 12 |
| | | | δ | 43 09 25 | 1033 70 | 43 09 57 |
| | | clarior contiguarum ad | ζ | 41 12 40 | 987 30 | 41 13 42 |
| | :: 31 | contiguæ duæ ad | ε | 41 12 40 | 987 30 | 41 13 42 |
| | | | μ | 37 20 30 | 894 40 | 37 20 59 |
| | | | κ | 36 11 00 | 866 68 | 36 11 39 |
| MDCLXXX. | | | | | | |
| ☽ Sept. 13 | 8 45 | *Lucida Coronæ* & Lucidior & Auſtralis in Cauda Aquilæ | | 50 41 40 | 1214 16 | 50 42 10 |
| | | *Lucidior & Auſtralis in Cauda Aquilæ* & Lyræ | κ | 24 25 05 | 584 68 | 24 25 19 |
| | 58 | | μ | 27 11 00 | 650 80 | 27 11 12 |
| | | Borealis contiguar. ad | ε | 26 11 55 | 627 22 | 26 12 00 |
| | 9 10 | harum Auſtralis | | 26 08 40 | 625 92 | 26 08 43 |
| | 14 | clarior contiguar. ad | ζ | 24 09 55 | 578 60 | 24 10 06 |
| | 19 | | δ | 23 09 05 | 554 25 | 23 09 06 |
| | 23 | | γ | 18 52 30 | 452 07 | 18 52 24 |
| | 28 | | λ | 18 18 35 | 438 53 | 18 18 30 |
| | 34 | | β | 19 47 35 | 474 17 | 19 47 54 |
| | 44 | Auſtralior & clarior ad | ν | 19 00 35 | 455 32 | 19 00 33 |
| | 49 | *Aquilæ lucida,* & | η | 31 24 20 | 751 93 | 31 24 39 |
| | 52 | | θ | 30 17 20 | 725 18 | 30 17 32 |
| | 57 | | ι | 28 59 10 | 693 91 | 28 59 09 |

| Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. M. H. | IN CONSTELLATIONE *LEPORIS.* | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♀ Feb. 23 | 7 22 | *Aldebaran* — & | ι | 29 46 35 | 712 70 | 29 46 15 |
| | | | κ | 30 52 00 | 738 96 | 30 52 10 |
| | 30 | | λ | 31 35 25 | 756 23 | 31 35 24 |
| | 33 | | ν | 30 49 00 | 737 76 | 30 49 09 |
| | 36 | | μ | 33 57 40 | 813 03 | 33 57 27 |
| | 40 | | ε | 39 30 35 | 946 22 | 39 30 42 |
| | 45 | | β | 39 24 05 | 943 44 | 39 23 44 |
| | 49 | | α | 37 04 05 | 887 54 | 37 03 50 |
| | 53 | | γ | 42 22 55 | 1014 93 | 42 22 55 |
| | 56 | | δ | 41 38 45 | 997 27 | 41 38 42 |
| | 59 | | ζ | 35 55 00 | 859 81 | 35 54 27 |
| | 8 02 | | η | 36 34 10 | 875 66 | 36 34 06 |
| | 7 | | θ | 38 32 15 | 922 82 | 38 32 05 |

| ANNO CHRISTI MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *LEPORIS.* | | Diſtantiæ per lineas diagonales. ° ' " | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| ♂ Mar. 1 | 7 26 | *Syrius* —— & ——— | ε | 24 10 50 | 579 06 | 24 11 15 |
| | 32 | ——— | ι | 23 01 40 | 551 25 | 23 01 36 |
| | 36 | ——— | κ | 22 33 30 | 540 03 | 22 33 24 |
| ♃ 3 | 7 56 | *Syrius* —— & ——— | λ | 20 59 50 | 502 75 | 20 59 51 |
| | | *Hæc habet Lucidam præcedentem ad Auſtrum.* | | | | |
| | 59½ | ——— | ν | 21 05 55 | 505 26 | 21 06 05 |
| | 8 02 | ——— | μ | 22 09 10 | 530 52 | 22 09 30 |
| | 05 | ——— | α | 17 21 50 | 416 16 | 17 22 25 |
| | 08 | ——— | β | 18 41 40 | 447 85 | 18 41 50 |
| | 13 | ——— | γ | 15 24 45 | 369 37 | 15 25 16 |
| ☿ 9 | 7 46 | *Procyon* —— & ——— | δ | 37 14 05 | 891 80 | 37 14 28 |
| | 49 | ——— | γ | 39 26 15 | 944 57 | 39 26 33 |
| | 53 | parvula antecedens —— | β | 43 09 10 | 1033 58 | 43 09 39 |
| | 56 | ——— | ζ | 34 23 10 | 823 47 | 34 23 35 |
| | 59 | ——— | η | 32 08 30 | 769 66 | 32 09 00 |
| | 8 01 | ——— | θ | 30 43 30 | 735 83 | 30 44 18 |
| | 04 | quæ ſub hâc ——— | | 31 56 30 | 764 74 | 31 56 42 |
| | 08 | quæ ſequitur λ ——— | | 38 48 45 | 929 75 | 38 49 25 |
| | 15 | *Aldebaran* — & quæ præcedit ——— | β | 39 14 45 | 939 75 | 39 14 27 |
| | 21 | quæ ſequitur ——— | λ | 32 38 00 | 781 10 | 32 37 36 |
| | 25 | quæ ſub θ eſt ——— | | 39 37 45 | 949 16 | 39 38 05 |

| ANNO CHRISTI MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *ORIONIS.* | | Diſtantiæ per lineas diagonales. ° ' " | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| ☉ Sept. 9 *vel* ☽ *mane* | 16 53 | *Procyon* —— & Pes lucidus ——— | β | | 924 19 | 38 35 30 |
| | 56 | ——— | κ | | 756 99 | 31 37 18 |
| | 17 01 | ultima Cinguli ——— | ζ | | 731 11 | 30 32 21 |
| | 04 | media ——— | ε | | 753 55 | 31 28 45 |
| | 07 | præcedens ——— | δ | | 774 01 | 32 19 55 |
| | 11 | Humerus præcedens —— | γ | | 800 51 | 33 26 12 |
| | 15 | Humerus ſequens ——— | α | | 622 72 | 26 00 42 |
| ♂ 11, *vel* ☿ *mane.* | 15 02 | *Aldebaran* — & Pes lucidus ——— | β | | 634 39 | 26 29 57 |
| | 07 | ——— | κ | | 757 50 | 31 38 39 |
| | 15 | *Super. Cornu Tauri* } & ultima Cinguli ——— | ζ | | 736 31 | 30 45 30 |
| | 22 | media Cinguli ——— | ε | | 716 10 | 29 54 48 |
| | 27 | præcedens ——— | δ | | 693 05 | 28 57 00 |
| | 40 | Humerus ſequens ——— | α | | 533 55 | 22 17 06 |
| | 49 | *Superior Pes Aurigæ* — } & præcedens Humerus —— | γ | | 660 74 | 27 36 06 |
| | 59 | *Super. Cornu Tauri* —— } & Procyon ——— | | | 938 78 | 39 12 00 |

| MDCLXXVIII. | | | | | | |
|---|---|---|---|---|---|---|
| ☽ Feb. 18 | 7 18 | *Procyon* —— & Humerus præcedens —— | γ | 33 26 30 | 800 61 | 33 26 27 |
| | 21 | ——— | A | 32 02 40 | 767 10 | 32 02 36 |
| | 25 | ſequens Humerus, ——— | α | 26 01 05 | 622 95 | 26 01 16 |
| | 28 | Cinguli prima ——— | δ | 32 19 55 | 774 14 | 32 20 15 |

| Anno Christi MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE ORIONIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Feb. 18 | 7 31 | *Procyon* — & Cinguli media — ε | 31 28 45 | 753 71 | 31 29 06 |
| | 36 | — ultima — ζ | 30 32 15 | 731 24 | 30 32 39 |
| | 39 | Pes lucidus — β | 38 35 35 | 924 28 | 38 35 46 |
| | 47 | *Aldebaran* — & — κ | 31 39 05 | 757 81 | 31 39 27 |
| | 52 | Pes lucidus — β | 26 30 00 | 634 45 | 26 30 06 |
| | 55 | Cinguli prima — δ | 21 46 35 | 521 45 | 21 46 39 |
| | 8 00 | — media — ε | 23 08 45 | 554 12 | 23 08 48 |
| | 03 | — ultima — ζ | 24 26 25 | 585 12 | 24 26 27 |
| | 07 | *Boreale Cornu Tauri,* } & Humerus præcedens — γ | 22 16 40 | 533 38 | 22 16 40 |
| | 12 | Humerus ſequens, — α | 22 17 25 | 533 52 | 22 17 01 |
| | 18 | *Procyon* — & — κ | 31 36 50 | 757 08 | 31 37 36 |
| | 25 | Aldebaran — | 46 20 10 | 1109 59 | 46 20 07 |
| | 28 | ſuperius Cornu Tauri — | 39 13 10 | 939 19 | 39 13 03 |
| MDCLXXIX. | | | | | |
| ☿ Feb. 26 | 8 18 | *Syrius* — & Pes lucidus — β | 23 42 00 | 567 12 | 23 41 22 |
| | 28 | *Procyon* — & Humerus ſequens — α | 26 01 10 | 623 06 | 26 01 33 |
| | 33 | Aldebaran — | 46 20 15 | 1109 75 | 46 20 31 |
| MDCLXXX. | | | | | |
| ☽ Jan. 26 | 8 34 | *Procyon* — & — α | 26 01 00 | 622 97 | 26 01 20 |
| | | — rep. | 26 01 05 | 622 95 | 26 01 17 |
| | 54 | — γ | 33 27 00 | 800 79 | 33 25 51 |
| | 56 | — rep. | 33 26 50 | 800 72 | 33 26 41 |
| | 9 13 | — λ | 31 09 25 | 745 91 | 31 09 21 |
| | 18 | Præcedens ad — φ | 31 11 20 | 746 68 | 31 11 31 |
| | 22 | Sequens ad — φ | 30 40 30 | 734 32 | 30 40 30 |
| ♄ Feb. 7 | 6 54 | *Procyon* — & — ζ | 30 32 35 | 731 37 | 30 33 06 |
| | 56 | — σ | 31 11 45 | 746 92 | 31 12 07 |
| | 59 | — ε | 31 29 15 | 753 90 | 31 29 34 |
| | 7 04 | — δ | 32 20 55 | 774 37 | 32 20 46 |
| | 07 | — γ | 33 27 15 | 800 88 | 33 27 05 |
| | 11 | — α | 26 01 35 | 623 08 | 26 01 36 |
| ♂ 10 | 6 04 | *Procyon* — & — β | 38 35 40 | 924 37 | 38 35 57 |
| | 07 | — κ | 31 37 15 | 757 18 | 31 37 46 |
| | 09 | infima in Gladio — ι | 32 57 00 | 788 90 | 32 57 07 |
| | 11 | in medio Enſe contiguar. ad θ Borealis & præced. } | 32 49 10 | 785 74 | 32 49 14 |
| | 14 | ſequens & Auſtrina ad — θ | 32 48 10 | 785 29 | 32 48 06 |
| | 16 | contig. ad *c*, in ſupremo Enſe præcedens. — } | 32 37 20 | 780 93 | 32 37 10 |
| | 18 | ſequens ad — *c* | 32 33 25 | 779 55 | 32 33 44 |
| | 23 | — τ | 37 26 30 | 896 59 | 37 26 27 |
| | 25 | — *e* | 36 16 25 | 868 60 | 36 16 27 |
| | 30 | Informis ſupra — β | 39 15 55 | 940 38 | 39 15 03 |
| | 33½ | — *n* | 34 36 15 | 828 49 | 34 36 07 |
| | 39 | — υ | 34 14 30 | 819 98 | 34 14 51 |
| | 41 | lucid. & Auſtr. duar. ad *d* | 32 36 25 | 780 64 | 32 36 27 |
| ♄ 14 | 6 37 | *Aldebaran* — & — β | 26 30 20 | 634 52 | 26 30 20 |
| | 43 | quæ infra hanc — | 26 34 30 | 636 22 | 26 34 36 |
| | 48 | — κ | 31 39 05 | 757 80 | 31 39 20 |
| | 57 | lucidior ad — *d* | 28 23 30 | 679 63 | 28 23 25 |
| | 7 02 | — υ | 27 33 30 | 659 79 | 27 33 43 |

| ANNO CHRISTI MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *ORIONIS.* | Diſtantia per lineas diagonales. ° ′ ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. | Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Feb. 14 | 7 09 | *Aldebaran* — & ——— ε | 27 04 25 | 648 | 16 | 27 04 35 |
| | 12 | ——— τ | 25 32 30 | 611 | 48 | 25 32 32 |
| ♂ 17 | 7 30 | *Aldebaran* — & ——— ι | 26 50 00 | 642 | 43 | 26 50 10 |
| | | *Hæc babet duas contiguas præcedentes ad Auſtrum.* | | | | |
| | 33 | Borealis præcedens — ad θ | 26 22 35 | 631 | 48 | 26 22 42 |
| | 35 | ſequens & Auſtrina — ad θ | 26 24 50 | 632 | 35 | 26 24 53 |
| | 38 | contig. ad c præcedens Borea lucidior ——— | 25 56 10 | 620 | 89 | 25 56 07 |
| | 41 | ſequens ad c & Auſtralior. — | 25 59 15 | 622 | 15 | 25 59 16 |
| | 45 | ——— σ | 24 37 55 | 589 | 73 | 24 37 58 |
| | 48 | ——— ζ | 24 26 25 | 585 | 11 | 24 26 24 |
| | 50 | ——— ε | 23 08 55 | 554 | 16 | 23 08 52 |
| | 53 | ——— δ | 21 47 25 | 521 | 62 | 21 47 09 |
| | 57 | ——— η | 22 24 30 | 536 | 43 | 22 24 21 |
| | 8 01 | ——— β | 26 30 20 | 634 | 53 | 26 30 21 |
| | 08 | ——— κ | 31 39 10 | 757 | 84 | 31 39 25 |
| | 15 | *Cornu Tauri ſuperius* — & ——— γ | 22 16 40 | 533 | 30 | 22 16 30 |
| | 21 | ——— λ | 18 48 40 | 450 | 47 | 18 48 24 |
| | 25 | ——— præced. ad ——— φ | 19 14 10 | 460 | 77 | 19 14 13 |
| | 28 | ——— φ | 19 28 00 | 466 | 25 | 19 28 00 |
| | 31 | ——— α | 22 17 15 | 533 | 51 | 22 17 02 |
| ♀ 20 | 9 00 | *Leonis clarior in pedibus præcedentibus, o,* & præced. ad χ anteced. Auſtr. | 55 19 15 | 1325 | 09 | 55 19 50 |
| | 03½ | Borealis & lucidior harum — | 55 27 25 | 1328 | 31 | 55 27 52 |
| | 09 | ſequentium ad χ Borealis — | 53 14 05 | 1274 | 92 | 53 14 22 |
| | 10 | harum Auſtrina ——— | 53 19 35 | 1277 | 08 | 53 19 46 |
| | 13 | parvula inter has & ν Gem. | 50 36 30 | 1212 | 01 | 50 36 44 |
| | 23 | *Humerus ſequens Aurigæ,* — & præcedentium ad χ Borea — | 24 41 20 | 591 | 12 | 24 41 28 |
| | 28 | harum Auſtrina ——— | 25 12 35 | 603 | 62 | 25 12 48 |
| | 33 | ſequentium ad χ Borealis — | 24 49 15 | 594 | 30 | 24 49 25 |
| | 35 | harum Auſtrina ——— | 25 16 05 | 604 | 94 | 25 16 06 |
| | 39 | inter has & ν Geminorum — | 25 58 15 | 621 | 74 | 25 58 15 |
| ♃ Dec. 9 | 9 12 | *Media trium in Lino Piſcium, ε,* & in exuviis ——— z | 57 47 50 | 1384 | 50 | 57 48 18 |
| | 16 | ——— rep. | 57 47 50 | 1384 | 50 | 57 48 18 |
| | 20 | ——— in exuviis infima 3ª | 58 57 45 | 1412 | 44 | 58 58 07 |
| | 23 | ——— rep. | 58 57 50 | 1412 | 45 | 58 58 09 |
| | 27 | *Ultima trium in Lino Piſcium, ζ,* & ——— 3ª | 56 17 55 | 1348 | 47 | 56 18 16 |
| | 31 | ——— rep. | 56 18 00 | 1348 | 51 | 56 18 22 |
| | 33 | *Nodus Lini Piſcium* — & præcedens Humerus — γ | 57 54::15 | 1387 | 12 | 57 54 54 |
| | 41 | ——— rep. | 57 54::15 | 1387 | 13 | 57 54 55 |

| ANNO CHRISTI MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. | M. | IN CONSTELLATIONE *ORIONIS.* | Diſtantia per lineas diagonales. ° | ′ | ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. | Cent | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ♃ Dec. 9 | 9 | 48 | *Antecedens & Auſtrina duarum ad κ, Ceti,* — & ———— 3ª | 24 | 51 | 00 | 594 | 93 | 24 | 51 | 01 |
| | | 51 | ———— rep. | 24 | 51 | 05 | 594 | 96 | 24 | 51 | 06 |
| | 10 | 27 | *MandibulaCeti*& præcedens in Cingulo — δ | 37 | 39 | 20 | 901 | 67 | 37 | 39 | 09 |
| MDCLXXXI. | | | | | | | | | | | |
| ☿ Feb. 2 | 7 | 34 | *Procyon* —— & Orionis ———— ρ | 36 | 32 | 55 | 875 | 13 | 36 | 32 | 46 |
| | | 37 | hanc ſequens Rhombi 1ª, m | 35 | 06 | 10 | 840 | 47 | 35 | 06 | 05 |
| | | 39½ | Borealis ſupra ↓ ———— | 34 | 07 | 20 | 816 | 89 | 34 | 07 | 07 |
| | | | Occidentalis Rhombi —— | 33 | 09 | 50 | 793 | 85 | 33 | 09 | 30 |
| | | 43½ | Auſtrina Rhombi ——— | 33 | 48 | 40 | 809 | 45 | 33 | 48 | 30 |
| | | 47 | quæ ſequitur n ———— | 32 | 03 | 10 | 767 | 23 | 32 | 02 | 55 |
| | | 49 | hanc ſequens ———— | 31 | 15 | 30 | 748 | 25 | 31 | 15 | 27 |
| | | 51 | ———— ω | 30 | 00 | 20 | 718 | 45 | 30 | 00 | 37 |
| | | 53 | ———— b | 29 | 27 | 20 | 705 | 36 | 29 | 27 | 50 |
| | | 56 | informium ſeq. b, Borea.— | 26 | 56 | 30 | 645 | 02 | 26 | 56 | 40 |
| | | 59 | ———— Auſtrina | 26 | 31 | 00 | 634 | 81 | 26 | 31 | 03 |
| | 8 | 09 | *Palilicium* — & ———— ρ | 16 | 28 | 20 | 394 | 56 | 16 | 28 | 20 |
| | | | Rhombi prima ——— m | 17 | 31 | 45 | 419 | 91 | 17 | 31 | 50 |
| | | 19 | —— Borea ſupra ↓ —— | 17 | 21 | 20 | 415 | 84 | 17 | 21 | 38 |
| | | | —— Occidentalis—— | 18 | 21 | 55 | 439 | 83 | 18 | 21 | 45 |
| | | 26 | —— Auſtrina—— | 18 | 58 | 05 | 454 | 39 | 18 | 58 | 12 |
| | | | —— quæ ſequitur n —— | 18 | 58::15 | | 454 | 49 | 18 | 58 | 27 |
| | | | —— hanc ſequens ad Bor. | 19 | 11 | 45 | 459 | 78 | 19 | 11 | 45 |
| | | 41 | ———— ω | 19 | 52 | 25 | 476 | 08 | 19 | 52 | 42 |
| | | 46 | ———— b | 22 | 15 | 45 | 532 | 95 | 22 | 15 | 37 |
| | | 50 | informium ſequens b, Borea | 23 | 52 | 25 | 571 | 66 | 23 | 52 | 44 |
| | | 56 | ———— Auſtrina. | 25 | 55 | 35 | 620 | 78 | 25 | 55 | 51 |
| | | | *Ultimæ duæ valde dubiæ propter vapores denſos & nebulam.* | | | | | | | | |
| ♃ 3 | 7 | 21 | *Palilicium* — & Bor. infor. ſequentium – b | 23 | 52 | 05 | 571 | 52 | 23 | 52 | 23 |
| | | | illa quæ hanc ſeq. ad Auſt. | 25 | 56 | 05 | 620 | 78 | 25 | 55 | 51 |
| | | 32 | contig. lucidior ad —— o | 20 | 20 | 15 | 487 | 13 | 20 | 20 | 31 |
| | | | contig. lucidior ad —— p | 21 | 08 | 55 | 506 | 45 | 21 | 09 | 03 |
| | | | ———— n | 22 | 24 | 15 | 536 | 37 | 22 | 24 | 12 |
| | | 43 | *Procyon* —— & inform. ſeq. b, Borea —— | 26 | 56 | 10 | 644 | 99 | 26 | 56 | 36 |
| | | 46 | ———— o | 34 | 51 | 55 | 834 | 90 | 34 | 52 | 09 |
| | | 48 | ———— p | 34 | 17 | 25 | 821 | 09 | 34 | 17 | 37 |
| ♀ 4 | 7 | 02½ | *Auriga Pes Boreus* — & ———— μ | 27 | 55 | 20 | 668 | 39 | 27 | 55 | 16 |
| | | 08 | ———— l | 29 | 38 | 25 | 709 | 59 | 29 | 38 | 25 |
| | | 15 | ———— k | 27 | 41 | 20 | 662 | 90 | 27 | 41 | 31 |
| ♄ 5 | 7 | 45 | *Procyon* —— & infima in exuviis ——— 3ª | 40 | 19 | 55 | 965 | 93 | 40 | 20 | 07 |
| | | 53 | ———— z | 42 | 14 | 35 | 1011 | 88 | 42 | 15 | 18 |
| | | | *Vitioſa certè, eſſe debuit* 41. 19. *circiter* | | | | | | | | |
| | | 56 | Auſtralis ad ———— π | 42 | 02 | 35 | 1006 | 91 | 42 | 02 | 51 |
| | | 59 | ———— rep. | 42 | 02 | 45 | 1007 | 06 | 42 | 03 | 14 |
| | 8 | 01½ | Borea ad ———— π | 41 | 03 | 05 | 983 | 04 | 41 | 03 | 01 |
| | | 03 | ———— g | 41 | 09 | 45 | 985 | 85 | 41 | 10 | 05 |
| | | 05 | ———— 2ª | 41 | 52 | 55 | 1003 | 23 | 41 | 53 | 37 |
| | | 07½ | ———— 1ª | 42 | 14 | 20 | 1011 | 83 | 42 | 15 | 10 |
| | 8 | 11 | ———— i | 37 | 46 | 15 | 904 | 33 | 37 | 45 | 50 |

| Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE ORIONIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Feb. 5 | 8 14 | *Procyon* — & ——— b | 37 29 15 | 897 59 | 37 28 57 |
| | 16 | quæ ſupra has in conſeq. — | 35 58 30 | 861 29 | 35 58 09 |
| | 19 | Auſtralis ad ——— o | 41 00 30 | 982 03 | 41 00 30 |
| | 21 | præcedens & Borea ad — o | 42 02 20 | 1006 66 | 42 02 13 |
| | 26 | præc. duar. ſeq. in recta cum his & Cornu ♉i Auſt. | 39 21::25 | 942 40 | 39 21 06 |
| | 29 | harum ſequens ——— | 38 10 30 | 914 12 | 38 10 18 |
| | 31 | perexigua adjac. & ſequens ad Boream ——— | 37 48 05 | 905 11 | 37 47 46 |
| | 40 | *Aurigæ Pes Boreus* — & præced. duar. ſeq. o, ad Bor. | 17 50 35 | 427 48 | 17 50 48 |
| ☽ 7 | 7 08 | *Aurigæ Pes Boreus* — & præced. duar. ſeq. o, ad Bor. | 17 50 15 | 427 29 | 17 50 20 |
| | 14 | harum ſequens ——— | 17 48 05 | 426 46 | 17 48 15 |
| | 17 | perexig. adjac. & ſequens ad Boream ——— | 17 26 35 | 417 84 | 17 26 39 |
| | 26 | ——— i | 24 47 20 | 593 45 | 24 47 18 |
| | | media ad ——— b | 23 30 40 | 562 82 | 23 30 35 |
| | 33 | quæ ſupra has in conſequent. | 22 15 50 | 532 94 | 22 15 36 |
| | 37 | *Lucidus Pes Orionis* — & ejuſdem præcedens & Borea ad ——— o | 23 06 40 | 553 18 | 23 06 25 |
| | | Auſtralis & ſequens ad — o | 22 10 50 | 530 96 | 22 10 37 |
| | 44 | ——— g | 20 13 25 | 484 34 | 20 13 28 |
| | | Borea ad ——— π | 18 59 55 | 455 04 | 18 59 51 |
| | | Auſtralis & ſequens ad — π | 18 06 25 | 433 72 | 18 06 27 |
| | 55 | in exuviis ——— 1ª | 16 22 20 | 392 27 | 16 22 36 |
| | 59 | ——— 2ª | 14 58 40 | 358 80 | 14 58 50 |
| | 06 | ——— 3ª | 10 41 50 | 256 02 | 10 41 36 |
| MDCLXXXII. | | | | | |
| ♃ Mar. 16 | 8 16 | *Palilicium* — & Humerus præcedens ——— γ | 15 46 20 | 377 89 | 15 46 36 |
| | 19 | ——— rep. | 15 46 15 | 377 88 | 15 46 35 |
| | 23 | Humerus ſequens ——— α | 21 24 00 | 512 60 | 21 24 30 |
| | 25 | ——— rep. | 21 24 00 | 512 60 | 21 24 30 |
| MDCLXXXVII. | | | | | |
| ☽ Dec. 12 | 10 27 | *Prima Arietis* & Humerus præcedens — γ | 50 30 45 | 1209 49 | 50 30 28 |
| | 30 | ——— rep. | 50 30 55 | 1209 54 | 50 30 36 |
| | 34 | ſequens Humerus ——— α | 56 52 20 | 1362 06 | 56 52 13 |
| | 37 | ——— rep. | 56 52 20 | 1362 07 | 56 52 15 |
| | 43 | *Secunda Arietis, β,* — & ſequens Humerus ——— α | 59 31 00 | 1425 51 | 59 30 42 |
| | 46 | ——— rep. | 59 31 00 | 1425 54 | 59 30 47 |
| | 50 | Humerus præcedens ——— γ | 52 53 55 | 1266 86 | 52 54 12 |
| | 52 | ——— rep. | 52 53 55 | 1266 80 | 52 54 03 |
| | 57 | prima & præced. Balthei δ | 57 07 10 | 1367 88 | 57 06 45 |
| | 11 02 | ——— media Balthei — ε | 58 27 20 | 1400 10 | 58 27 16 |
| | 05 | ——— rep. | 58 27 25 | 1400 12 | 58 27 19 |
| | 08 | ultima Balthei ——— ζ | 59 48 10 | 1432 33 | 59 47 50 |
| | 12 | lucidus Pes ——— β | 57 02 00 | 1365 81 | 57 01 35 |
| MDCLXXXVIII. | | | | | |
| ☽ Jan. 30 | 7 41 | *Secunda Arietis, β,* — & Humerus ſequens ——— α | 59 31 20 | 1425 63 | 59 31 06 |
| | 47 | Humerus præcedens ——— γ | 52 54 30 | 1267 13 | 52 54 53 |

| Anno Christi MDCLXXXVIII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *ORIONIS.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Jan. 30 | 7 55 | *Secunda Arietis, β,* & præcedens Balthei —— δ | 57 07 25 | 1368 17 | 57 07 28 |
| | 8 00 | media —— ε | 58 27 50 | 1400 28 | 58 27 43 |
| | 04 | ultima —— ζ | 59 48 40 | 1432 51 | 59 48 16 |
| | 08 | quæ infra hanc —— σ | 59 38 45 | 1428 55 | 59 38 24 |
| | 14 | Pes lucidus —— β | 57 02 00 | 1365 94 | 57 01 54 |
| | 19 | *Lucida Mandibulæ Ceti,* & ſequens Pes —— | 43 27 50 | 1040 55 | 43 27 07 |
| | 22 | —— rep. | 43 27 40 | 1040 56 | 43 27 09 |
| | 9 13 | *Regulus Leonis, α,* — & Humerus ſequens —— | 62 27 30 | 1496 39 | |
| | 15 | —— rep. | 62 27 30 | 1496 39 | |
| | | *Omnes accuratiſſimè.* | | | |
| ♂ 31 | 7 04 | *Lucida Arietis* & Humerus ſequens —— α | 56 52 45 | 1362 30 | 56 52 50 |
| | 09 | —— rep. | 56 52 40 | 1362 26 | 56 52 44 |
| | 12 | Humerus præcedens —— γ | 50 30 40 | 1209 60 | 50 30 45 |
| | 16 | —— rep. | 50 30 40 | 1209 60 | 50 30 45 |
| ☽ Feb. 13 | 7 10 | *Inter Humeros Orionis* —— | 7 32 40 | 180 47 | 7 32 27 |
| | 11 | —— rep. | 7 32 45 | 180 52 | 7 32 34 |
| | 18 | *Inter primam* & ultimam Balthei —— | 2 44 10 | 65 50 | 2 44 07 |
| | 20 | —— rep. | 2 44 20 | 65 55 | 2 44 15 |
| | 23 | *Inter mediam* & ultimam Balthei —— | 1 21 50 | 32 52 | 1 21 27 |
| | 34 | *Inter primam* & mediam Balthei —— | 1 23 30 | 33 21 | 1 23 10 |
| | 40 | *Inter Pedem, β,* & Genu κ —— | 8 20 45 | 199 69 | 8 20 36 |

| Anno Christi MDCLXXIX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PEGASI.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Dec. 2 | 5 16 | *Aquilæ lucida* & Markab —— α | 47 48 05 | 1144 89 | 47 48 36 |
| | 18; | —— rep. | 47 47 55 | 1144 82 | 47 48 25 |
| | | —— iterum. | 47 48 00 | 1144 87 | 47 48 32 |
| | 6 42½ | *Lucida Arietis* & Markab Pegaſi —— | 43 37 35 | 1044 78 | 43 37 43 |
| | | —— rep. | 43 37 40 | 1044 79 | 43 37 45 |
| MDCLXXX. | | | | | |
| ♄ Jan. 3 | 6 28 | *Lucida Arietis* & Scheat —— | 41 18 15 | 989 44 | 41 19 05 |
| ☉ Julij 25 *vel* ☽ 26 *manè* | 14 55 | *Caput Andromedæ* — & Scheat —— | 14 12 50 | 340 58 | 14 13 15 |
| | 15 00 | Markab —— | 20 11 40 | 483 88 | 20 12 20 |
| | 04 | Os Pegaſi —— | 38 46 25 | 928 88 | 38 47 15 |
| | 10 | *Extrema Alæ* & Os Pegaſi —— | 36 42 25 | 879 30 | 36 43 12 |
| | 14 | Collum —— | 22 46 10 | 545 30 | 22 46 39 |
| | 17 | Markab —— | 16 31 25 | 395 83 | 16 31 32 |
| ☽ Sept. 13 | 8 31 | *Os Pegaſi* — & Roſtrum Cygni —— | 36 10 30 | 866 15 | 36 10 20 |
| | 35 | —— rep. | 36 10 35 | 866 19 | 36 10 26 |

| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PEGASI.* | Diſtantiæ per lineas diagonales. ° | ′ | ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. | Cent. | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|
| ♀ Oct. 29 | 8 08 | *Andromedæ lucida in Cingulo, Mirach* & ——— κ | 44 | 42 | 10 | 1070 | 88 | 44 | 43 | 05 |
| | 10 | parvula ſequens ——— κ | 42 | 52 | 30 | 1026 | 93 | 42 | 53 | 00 |
| | 12 | ——— ι | 40 | 19 | 05 | 965 | 68 | 40 | 19 | 30 |
| | 17 | quæ media ferè inter ι & η, 5æ lucis ——— | 36 | 08 | 05 | 865 | 26 | 36 | 08 | 06 |
| | 21 | ——— π | 36 | 48 | 40 | 881 | 80 | 36 | 49 | 28 |
| | 25 | ——— η | 31 | 03 | 50 | 743 | 68 | 31 | 04 | 02 |
| | 28 | ——— ο | 31 | 38 | 10 | 757 | 38 | 31 | 38 | 16 |
| | 30 | ——— Scheat ——— β | 27 | 39 | 00 | 662 | 34 | 27 | 40 | 06 |
| | 34 | ——— μ | 31 | 57 | 45 | 765 | 08 | 31 | 57 | 33 |
| | 37 | ——— λ | 33 | 09 | 00 | 793 | 86 | 33 | 09 | 31 |
| | 42 | *Mirach*, ——— & in ſequente Manu Aquarij Auſtralium antecedens, ζ | 51 | 38 | 45 | 1237 | 08 | 51 | 39 | 37 |
| | 47 | in Occipite Piſcis Auſtrini γ | 41 | 31 | 55 | 994 | 83 | 41 | 32 | 35 |
| | 56 | *In ſequente Manu Aquarij, ζ,* & ——— κ | 27 | 46 | 50 | 665 | 18 | 27 | 47 | 13 |
| | 9 00 | parvula ſequens κ ——— | 27 | 20 | 10 | 654 | 40 | 27 | 20 | 13 |
| | 03 | ——— ι | 25 | 53 | 45 | 620 | 14 | 25 | 54 | 13 |
| | 07 | *In Occipite Piſcis Auſtrini, γ,* & quæ media ferè inter ι & η, 5æ lucis ——— | 28 | 19 | 40 | 678 | 12 | 28 | 19 | 37 |
| | 11 | ——— π | 33 | 44 | 35 | 807 | 80 | 33 | 44 | 22 |
| | 14 | ——— η | 28 | 06 | 15 | 672 | 83 | 28 | 06 | 24 |
| | 16 | ——— ο | 27 | 19 | 30 | 654 | 20 | 27 | 19 | 42 |
| | 18 | ——— μ | 22 | 17 | 30 | 533 | 63 | 22 | 17 | 20 |
| | 21 | ——— λ | 21 | 34 | 25 | 516 | 56 | 21 | 34 | 27 |
| | 24 | ——— β | 24 | 59 | 05 | 598 | 14 | 24 | 59 | 03 |
| ♂ Nov. 2 | 6 49 | *Lucida Arietis* & ——— σ | 48 | 22 | 05 | 1158 | 49 | 48 | 22 | 42 |
| | 52 | ——— ρ | 48 | 05 | 30 | 1151 | 90 | 48 | 06 | 10 |
| | 57 | ——— ξ | 48 | 45 | 45 | 1168 | 07 | 48 | 46 | 43 |
| | | ——— ζ | 50 | 27 | 20 | 1208 | 37 | 50 | 27 | 40 |
| | 7 07 | ——— ε | 54 | 31 | 25 | 1305 | 88 | 54 | 31 | 47 |
| | | ——— ν | 60 | 52 | 15 | 1458 | 16 | 60 | 52 | 24 |
| | 12 | ——— θ | 59 | 23 | 25 | 1422 | 66 | 59 | 23 | 40 |
| | 17 | quæ ſequitur θ ad Auſtrum | 57 | 11 | 55 | 1370 | 18 | 57 | 12 | 30 |
| | 22 | in △° parvo infra hanc in conſequent. 3tium anteced. | 56 | 25 | 15 | 1351 | 40 | 56 | 25 | 37 |
| | 24 | harum media Borealis, lucida | 55 | 58 | 45 | 1340 | 87 | 55 | 59 | 16 |
| | 27 | ultima & Auſtraliſſima — | 55 | 36 | 35 | 1332 | 18 | 55 | 37 | 33 |
| | | *Flabat intereà fortitèr ventus, nèc permittebat quieſcere inſtrumentum, quod ad accuratas Obſervationes apprime neceſſarium. Nòn bis proptereà omninò Obſervatiombus fidendum, niſi repetitæ menſuræ cum bis convenire comperiantur.* | | | | | | | | |
| ♄ 6 | 7 51 | *Succedens in Effuſione Aquæ ♒ii, λ,* & Os ——— ε | 24 | 23 | 10 | 583 | 92 | 24 | 23 | 25 |
| | 8 03 | ——— ν | 17 | 13 | 25 | 412 | 60 | 17 | 13 | 32 |
| | 05 | ——— θ | 17 | 22 | 40 | 416 | 32 | 17 | 22 | 50 |
| | 10 | quæ ſequitur θ ad Auſtrum | 15 | 35 | 15 | 373 | 44 | 15 | 35 | 26 |

| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PEGASI.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♄ Nov. 6 | 8 13 | *Succedens in Effuſione Aquæ* ♒ⁱⁱ, λ, & in △° parvo infra hanc in conſequentia, anteced. | 13 37 20 | 326 26 | 13 37 24 | 6 |
| | 16 | harum media Borea, lucid. | 13 46 20 | 329 77 | 13 46 12 | 5 |
| | 26 | ——— ultima ——— | 13 17 10 | 318 12 | 13 17 02 | 6 |
| | 32 | *Lucida Arietis* & ad Genu Pegaſi ——— ι | 54 14 45 | 1299 23 | 54 15 09 | |
| | 41 | *Quæ ad Genu, ι,* & Ejuſdem ——— ξ | 16 07 55 | 386 31 | 16 07 40 | |
| | 45 | ——— ζ | 16 39 20 | 398 95 | 16 39 20 | |
| | 50 | ——— σ | 18 52 30 | 452 22 | 18 52 46 | |
| | 54 | ——— ρ | 20 07 35 | 482 02 | 20 07 39 | |
| | 59 | in □° hanc ſeq. Bor. præced. *l* | 21 23 20 | 512 20 | 21 23 30 | |
| | 9 04 | Borealium ſequens ——— *n* | 21 34 20 | 516 47 | 21 34 14 | |
| | 08 | Auſtral. in □° præcedens *m* | 22 21 20 | 535 19 | 22 21 15 | |
| | 11 | Auſtralium ſequens ——— *p* | 22 40 50 | 542 88 | 22 40 35 | |
| | 16 | duarum ſequentium α, præced. Auſtr. minor. | 22 11 20 | 531 22 | 22 11 16 | 6 |
| | 19 | ſequens Borealior lucidior | 23 06 00 | 553 00 | 23 05 58 | |
| ☽ 8 | 8 08 | *Lucida Arietis* & in □° ſequente ρ Boreal. præcedens ——— | 45 11 15 | 1082 47 | 45 12 06 | |
| | 12 | Borealium ſequens ——— | 44 20 15 | 1062 09 | 44 21 05 | |
| | 15 | Auſtralium in □° præced. | 44 54 35 | 1075 98 | 44 55 50 | |
| | 17 | Auſtralium ſequens ——— | 44 24 10 | 1063 69 | 44 25 05 | |
| | 19 | 2ᵃʳᵘᵐ ſeq. α, præc. Auſtr. min. | 40 25 40 | 968 23 | 40 25 54 | |
| | 25 | ſequens Borealior, lucidior | 38 53 35 | 931 21 | 38 53 05 | |
| | 35 | quæ ſub Scheat ——— | 40 47 50 | 977 16 | 40 48 16 | 5.6 |
| | 40 | ——— τ | 37 59 40 | 909 70 | 37 59 15 | |
| | 44 | ——— υ | 36 58 40 | 885 45 | 36 58 40 | |
| ♄ 13 | 9 20 | *Lucida Arietis* & ——— υ | 36 58 40 | 885 57 | 36 58 54 | |
| | 27 | quæ ſequitur υ in recta cum ea & τ ——— *q* | 35 15 30 | 844 36 | 35 15 48 | |
| | 30 | ——— ψ | 29 26 30 | 704 82 | 29 26 28 | |
| | 33 | quæ inter hanc & φ, ——— *r* | 31 04 00 | 743 95 | 31 04 42 | |
| | 37 | ——— φ | 31::34 45 | 756 03 | 31 34 54 | |
| | 41 | quæ antecedit φ in recta cum ea & χ, *s* | 35 05 40 | 840 58 | 35 06 21 | |
| | 45 | ——— χ | 26 16 15 | 629 27 | 26 17 09 | |
| | 52 | quæ anteced. χ ad Auſtr. *n* | 28 01 45 | 671 42 | 28 02 52 | |
| | 57 | *Lucida Arietis* & lucida in cauda ♓ˡˢ Auſtr. ω | 34 52 40 | 835 44 | 34 53 30 | |
| | 10 04 | *Lucida in Cauda Piſcis Auſtrini, ω,* & quæ ſub Scheat ——— | 22 22 50 | 535 79 | 22 22 45 | |
| | 08 | ——— τ | 19 14 30 | 460 94 | 19 14 39 | |
| | 10 | ——— υ | 18 25 40 | 441 38 | 18 25 37 | |
| | 13 | quæ ſequitur υ in recta cum ea & τ ——— *q* | 16 48 45 | 402 75 | 16 48 51 | |
| | 17 | quæ antecedit φ in recta cum ea & χ ——— *s* | 12 38 20 | 302 75 | 12 38 33 | |
| | 25 | ——— φ | 12 21 05 | 295 91 | 12 21 27 | |
| | 28 | quæ inter ψ & φ, ——— *r* | 14 53 15 | 356 63 | 14 53 24 | |
| | 40 | ——— ψ | 18 16 25 | 437 68 | 18 16 22 | |
| ☽ 29 | 6 09 | *Lucidus Pes Andromedæ Alamech* & quæ præit χ ——— | 34 16 30 | 820 71 | 34 16 40 | |
| | 13 | ——— χ | 31 54 15 | 763 76 | 31 54 15 | |

| ANNO CHRISTI MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PEGASI.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Nov. 29 | 6 22 | *Lucidus Pes Andromedæ Alamech* & in ventre —— 1ª | 33 37 10 | 804 81 | 33 36 54 |
| | | —— 2ª | 32 48::05 | 785 16 | 32 47 46 |
| | 28 | —— 3ª | 31 39 00 | 757 90 | 31 39 35 |
| | 31 | —— 4ª | 30 53 20 | 739 56 | 30 53 40 |
| | | —— 5ª | 30 10 30 | 722 60 | 30 11 03 |
| | 41 | Scheat —— β | 38 56 25 | 932 66 | 38 56 42 |
| | 44 | Extrema Alæ, Algenib —— | 36 04 00 | 863 83 | 36 04 31 |
| | 53 | *Scheat Pegasi* & quæ præit χ ad Austrum —— | 17 55 25 | 429 32 | 17 55 24 |
| | 59 | —— χ | 17 57 10 | 430 00 | 17 57 06 |
| | 7 05 | *Extrema Alæ, Algenib*, & in ventre —— 1ª | 20 20 00 | 486 97 | 20 20 07 |
| | 09 | —— 2ª | 20 25 00 | 488 98 | 20 25 10 |
| | 12 | —— 3ª | 18::28 10 | 442 35 | 18 28 03 |
| | 16 | —— 4ª | 15 41 40 | 376 08 | 15 42 05 |
| | 20 | —— 5ª | 14 42 20 | 352 26 | 14 42 28 |
| ♃ Dec. 9 | 7 23 | *Lucida Arietis* & —— ι | 54 14 30 | 1299 23 | 54 15 09 |
| | 27 | —— rep. | 54 14 30 | 1299 21 | 54 15 06 |
| | 32 | Scheat —— β | 41 17 55 | 989 34 | 41 18 50 |
| MDCLXXXI. | | | | | |
| ☿ Jan. 5 | 5 33 | *Lucida Arietis* & —— η | 45 38 30 | 1093 13 | 45 38 50 |
| | 36 | —— rep. | 45 38 40 | 1093 16 | 45 38 55 |
| | 6 15 | Extrema Alæ —— γ | 28 02 45 | 671 78 | 28 03 46 |
| MDCLXXXII. | | | | | |
| ♀ Sept. 22 | 7 19½ | *Caput Ophiuchi* & Os —— ε | 61 03 20 | 1462 50 | 61 03 15 |
| | 20½ | —— rep. | 61 03 20 | 1462 50 | 61 03 15 |
| ♃ Oct. 26 | 7 29 | *Australis in Cauda Aquilæ* & Os —— ε | 39 00 10 | 934 10 | 39 00 18 |
| | 34 | —— θ | 46 02 10 | 1102 47 | 46 02 17 |
| | 38 | —— ζ | 52 44 25 | 1263 06 | 52 44 42 |
| | 42 | —— Markab —— α | 57 44 20 | 1383 03 | 57 44 38 |
| | 48 | —— rep. | 57 44 40 | 1383 10 | 57 44 48 |
| ♄ 28 | 7 39 | *Lyræ Lucida* & Os —— ε | 50 43 55 | 1214 86 | 50 43 55 |
| | 42 | —— rep. | 50 43 50 | 1214 85 | 50 43 53 |
| MDCLXXXV. | | | | | |
| ♂ Julij 21 | 9 06 | *Lyræ Lucida* & Scheat —— | 55 28 20 | 1328 49 | 55 28 20 |
| | 16 | —— rep. | 55 28 40 | 1328 64 | 55 28 42 |
| ♄ Sept. 12 | 9 56 | *Lyræ Lucida* & Scheat Pegasi —— | 55 28 50 | 1328 86 | 55 29 15 |
| | 10 00 | —— rep. | 55 28 45 | 1328 82 | 55 29 09 |
| | 08 | *Aquilæ Lucida* & Markab —— | 47 47 40 | 1144 65 | 47 48 00 |
| | 14 | *Prima Arietis* & Markab —— | 40 24 15 | 967 26 | 40 23 27 |
| ♀ Oct. 2 | 9 15 | *Lyræ Lucida* & Os Pegasi —— | 50 44 00 | 1214 92 | 50 44 05 |
| | 34 | *Scheat Pegasi* & Os Ejusdem —— | 26 04 45 | 624 38 | 26 04 51 |
| | 40 | *Markab* —— & —— θ | 16 09 30 | 387 01 | 16 09 25 |
| | 45 | —— ζ | 7 10 25 | 171 66 | 7 10 22 |
| | 50 | Os —— ε | 20 21 20 | 487 62 | 20 21 45 |
| | 59 | Scheat —— | 12 51 55 | 308::08 | 12 51 54 |

| Anno Christi MDCLXXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Pegasi.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Sept. 15 | 9 01 | *Markab* —— & Extrema Alæ —— | 16 31 55 | 395 77 | 16 31 23 |
| | 06 | —— rep. | 16 32 00 | 395 84 | 16 31 33 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Persei.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Dec. 20 | 6 35 | *Andromedæ Caput* & Lucidum latus —— α | 42 08 55 | 1009 57 | 42 09 30 |
| | | —— rep. | 42 08 55 | 1009 58 | 42 09 31 |
| | 47 | Algol —— β | 38 12 30 | 915 19 | 38 12 58 |
| | | —— rep. | 38 12 30 | 915 20 | 38 13 00 |
| | 7 01 | —— ε | 47 39 55 | 1141 53 | 47 40 10 |
| | | —— rep. | 47 39 55 | 1141 56 | 47 40 15 |
| | | *Vento valde turbido Instrumentum interdum commovente.* | | | |
| ☽ 22 | 8 00 | *Scheat Pegasi* & Algol —— β | 50 55 35 | 1219 62 | 50 55 51 |
| | 08 | —— α | 53 13 15 | 1274 54 | 53 13 25 |
| | 17 | —— ε | 60 23 15 | 1446 66 | 60 23 39 |
| MDCLXXX. | | | | | |
| ☿ Feb. 11 | 7 01 | *Lucidus Pes Geminorum* } & —— β | 51 08 45 | 1224 95 | 51 09 13 |
| | | —— rep. | 51 08 55 | 1225 04 | 51 09 27 |
| | 13 | —— α | 51 10 50 | 1225 75 | 51 11 13 |
| | 18 | —— ε | 41 51 40 | 1002 63 | 41 52 07 |
| | 23 | —— ζ | 40 06 10 | 960 44 | 40 06 21 |
| ♀ Aug. 20 | 9 01 | *Caput Andromedæ* & —— υ | 25 59 40 | 622 37 | 25 59 50 |
| | 16 | —— φ | 28 01 25 | 671 18 | 28 02 16 |
| | 21 | infra hanc Exigua —— | 29 07 20 | 697 42 | 29 07 57 |
| | 29 | —— g | 31 58 30 | 765 69 | 31 59 05 |
| | 32 | quæ est infra g —— | 32 38 35 | 781 67 | 32 39 02 |
| | 49 | —— i | 35 44 40 | 856 10 | 35 45 10 |
| | 59 | —— n | 39 12 20 | 938 94 | 39 12 25 |
| | 10 03 | —— k | 41 24 20 | 991 81 | 41 25 02 |
| | 07 | —— γ | 40 09 50 | 961 85 | 40 09 54 |
| | 11 | —— τ | 38 25 25 | 920 18 | 38 25 27 |
| | 13 | hanc juxta sequens —— | 39 13 25 | 939 29 | 39 13 18 |
| | 17 | —— θ | 35 40 15 | 854 21 | 35 40 27 |
| | 25 | —— ι | 39 33 45 | 947 65 | 39 34 13 |
| | 28 | —— α | 42 07 55 | 1009 06 | 42 08 13 |
| | 31 | *Medusæ Algol* & —— υ | 17 39 05 | 422 85 | 17 39 12 |
| | 38 | —— φ | 17 32 50 | 420 31 | 17 32 50 |
| | 48 | quæ est infra φ —— | 16 24 05 | 392 95 | 16 24 18 |
| | 54 | —— g | 18 55 55 | 453 52 | 18 56 02 |
| | 57 | quæ infra g —— | 17 23 25 | 416 66 | 17 23 40 |
| | 11 10 | *Genu Persei* ε, & Ejusdem —— i | 22 17 10 | 533 53 | 22 17 05 |
| | 15 | —— n | 19 20 10 | 463 21 | 19 20 22 |
| | 21 | —— k | 18 44 10 | 448 70 | 18 43 57 |
| | 26 | —— γ | 16 12 20 | 388 23 | 16 12 28 |

| ANNO CHRISTI MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PERSEI.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Aug. 21 | 10 09 | *Scheat Pegasi* & in nebulosa ad χ, —— *a* | 44 43 15 | 1071 34 | 44 44 13 |
| | 14½ | *Caput Andromedæ* — & eadem —— *a* | 36 15 00 | 868 15 | 36 15 19 |
| | 23 | *Genu Persei*, ε, — & eadem —— *a* | 23 43 30 | 563 10 | 23 43 48 |
| | 28 | Ejusdem —— *i* | 22 16 50 | 533 41 | 22 16 46 |
| | 35 | —— τ | 16 43 40 | 400 76 | 16 43 51 |
| | 42 | hanc juxta sequens —— :: *s* | 15 48 20 | 378 76 | 15 48 46 |
| | 51 | —— θ | 15 58 45 | 382 78 | 15 58 50 |
| | | *Tunc Nubes.* | | | |
| ♃ Sept. 2 | 8 23 | *Caput Andromedæ* & —— κ | 38 49 10 | 929 71 | 38 49 20 |
| | 35 | —— *l* | 40 48 25 | 977 38 | 40 48 50 |
| | 38 | Algol —— β | 38 11 45 | 914 65 | 38 11 37 |
| | 44 | —— π | 36 19 40 | 869 84 | 36 19 33 |
| | 49 | —— ρ | 37 31 35 | 898 52 | 37 31 18 |
| | 9 00 | —— ω | 38 44 05 | 927 73 | 38 44 21 |
| | 06 | his Austr. in recta cum π & β, duar. anteced. | 34 39 00 | 829 60 | 34 38 54 |
| | 13 | harum sequens —— | 35 16 25 | 844 51 | 35 16 10 |
| ♂ 7 | 8 45 | *Quæ in Apice Trianguli* & duar. supra α, super. & præced. | 26 22 42 | 631 73 | 26 23 20 |
| | 52 | quæ hanc sequitur ε, duabus constat contiguis, quarum, Australis & sequens à dicta △ⁱ —— | 26 06 55 | 625 41 | 26 07 27 |
| | 56 | harum præced. & Borealis | 26 08 55 | 626 26 | 26 09 34 |
| | 59 | —— α | 26 34 10 | 636 29 | 26 34 46 |
| | 9 05 | duarum seq. α, Borealior — | 26 58 40 | 645 97 | 26 59 05 |
| | 11 | harum Australior —— | 26 31 30 | 635 12 | 26 31 50 |
| | 17 | Lucidissima ad —— σ | 26 13 10 | 626 82 | 26 13 30 |
| | 19 | —— ♆ | 27 08 35 | 649 90 | 27 08 55 |
| | 21 | —— δ | 31 14 05 | 748 00 | 31 14 50 |
| | 34 | —— λ | 32 28 25 | 777 37 | 32 28 16 |
| | 37 | duarum ad *b* Australior. —— | 34 07 40 | 817 24 | 34 08 00 |
| | 41 | ad *b* Borealior —— | 34 39 45 | 829 81 | 34 39 25 |
| | 47 | —— μ | 32 54 20 | 787 66 | 32 54 01 |
| | 50 | —— *c* | 31 40 00 | 758 17 | 31 40 16 |
| | 56 | quæ media in recta cum *c* & *d* —— | 29 47 50 | 713::25 | 29 47 36 |
| | 59½ | *Lucida Arietis* & —— *d* | 33 19 20 | 798 67 | 33 21 33 |
| | 10 10 | —— *f* | 31 42 40 | 759 31 | 31 43 07 |
| | 15 | —— *e* | 35 51 15 | 858 41 | 35 50 57 |
| | 19 | —— *m* | 35 53 15 | 859 15 | 35 52 48 |
| | 24 | quæ sequitur —— *m* | 37 36 25 | 900 49 | 37 36 12 |
| ☿ 8 | 10 27 | *Pes Aurigæ superior* — & duarum supra α superior & præcedens —— | 25 32 20 | 611 45 | 25 32 27 |
| | 32 | Contiguarum sequentium præced. & Borealior — | 24 49 20 | 594 36 | 24 49 35 |
| | 37 | harum seq. & Austrina —— | 24 41 25 | 591 18 | 24 41 37 |
| | 41 | —— α | 23 52 15 | 571 53 | 23 52 24 |
| | 44 | duarum seq. α, Borealior — | 23 00 35 | 550 90 | 23 00 44 |
| | 47 | harum Australior —— | 22 55 25 | 548 69 | 22 55 10 |
| | 54 | Lucidissima ad —— σ | 21 57 45 | 525 80 | 21 57 39 |
| | 57 | —— ♆ | 21 17 00 | 509 65 | 21 17 06 |

| ANNO CHRISTI MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *PERSEI.* | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Sept. 8 | 11 06 | *Pes Aurigæ ſuperior* — & ——— | δ | 20 11 35 | 483 60 | 20 11 38 |
| | 16 | * *c* ——— | A | 20 43 25 | 496 40 | 20 43 52 |
| | 21 | * A ——— | λ | 19 31 00 | 467 46 | 19 31 03 |
| | 27 | * *b* Borealis ad ——— | *b* | 18 58 20 | 454 48 | 18 58 25 |
| | 36 | Auſtralis ad ——— | *b* | 18 33 25 | 444 43 | 18 33 16 |
| | | *Hæc babet Comitem ad Auſtrum,* | c | | | |
| | 40 | ——— | μ | 17 09 05 | 410 92 | 17 09 18 |
| | 45 | ——— | *c* | 17 09 25 | 410 99 | 17 09 28 |
| | 51 | ——— | *d* | 14 56 30 | 357 90 | 14 56 34 |
| | 58 | *Quæ in Apice* △[i] — & Pes ſuperior Aurigæ ——— | | 39 05 45 | 936 16 | 39 05 27 |
| | 12 00 | ——— | rep. | 39 05 35 | 936 07 | 39 05 13 |
| ♃ 9 | 9 26 | *Scheat Pegaſi* & lucidum Latus, ——— | α | 53 12 50 | 1274 34 | 53 12 55 |
| | 29 | ——— | rep. | 53 12 50 | 1274 36 | 53 12 58 |
| | 33 | ad Genu Perſei ——— | ε | 60 22 20 | 1446 06 | 60 22 09 |
| | 37 | *Caput Andromedæ* — & dicta ——— | ε | 47 39 05 | 1141 03 | 47 38 55 |
| ☽ 13 | 10 07 | *Pes ſuperior Aurigæ* — & quæ media eſt in recta cum *c* & *d* ——— | | 18 38 15 | 446 41 | 18 38 14 |
| | 16 | ——— | *f* | 11 07 55 | 266 61 | 11 08 06 |
| | 24 | ——— | *e* | 09 02 20 | 216 41 | 09 02 29 |
| | 28 | ——— | *m* | 10 55 10 | 261 32 | 10 54 51 |
| | 34 | quæ ſequitur *m* ——— | | 10 33 40 | 252 87 | 10 33 43 |
| ☽ Oct. 11 ♂ 12 *mane* | 17 26 | *Aldebaran* — & Meduſæ Caput Algol — | β | 30 53 20 | 739 66 | 30 53 55 |
| ♄ 23 | 8 20 | *Lucida Arietis* & Algol ——— | β | 21 39 35 | 518 80 | 21 40 05 |
| | 30 | ——— | π | 19 31 30 | 467 81 | 19 31 55 |
| | 35 | præcedens duarum ad — | *p* | 17 29 55 | 419 31 | 17 30 20 |
| | 38 | ſequens & minor ad — | *p* | 17 52 35 | 428 46 | 17 53 15 |
| | 44 | ——— | *q* | 18 18 15 | 438 56 | 18 18 35 |
| | 53 | ——— | *r* | 15 05 05 | 361 40 | 15 05 20 |
| | 57 | ——— | *s* | 16 15 35 | 389 58 | 16 15 52 |
| | 9 00 | ——— | ζ | 25 03 40 | 599 94 | 25 03 36 |
| | 12 | ——— | *o* | 23 09 15 | 554 32 | 23 09 16 |
| | | ——— | *n* | 24 26 05 | 585 02 | 24 26 10 |
| | 21 | parvula ſupra *o* ——— | *o* | 23 18 00 | 557 73 | 23 17 50 |
| | 25 | ——— | ξ | 27 06 40 | 649 13 | 27 07 00 |
| | 30 | *Aldebaran* — & ——— | *r* | 29 45 30 | 712 25 | 29 45 06 |
| | 33 | ——— | *s* | 28 31 20 | 682 79 | 28 31 20 |
| | 35 | præcedens duarum ad — | *p* | 31 44 20 | 760 01 | 31 44 52 |
| | 38 | ſequens & minor ad — | *p* | 31 15 20 | 748 20 | 31 15 20 |
| | 38 | ——— | *q* | 34 08 30 | 817 35 | 34 08 16 |
| | 44 | ——— | *o* | 19 36 35 | 469 79 | 19 36 54 |
| | 47 | parvula ſupra *o*, ——— | *o* | 21 10 30 | 507 09 | 21 10 40 |
| | 51 | ——— | *n* | 19 35 05 | 469 05 | 19 35 03 |
| | 54 | ——— | ζ | 18 02 35 | 432 22 | 18 02 42 |
| | 59 | ——— | ξ | 20 56 25 | 501 42 | 20 56 32 |
| | 10 04 | ——— | ω | 29 31 00 | 706 57 | 29 30 52 |
| | 06 | ——— | β | 30 53 20 | 739 59 | 30 53 45 |
| | 08 | ——— | π | 31 19 10 | 749 77 | 31 19 15 |
| | 11 | ——— | ρ | 29 51 30 | 714 75 | 29 51 21 |
| | 21 | *Lucida Arietis* & ——— | ω | 21 05 05 | 505 07 | 21 05 36 |
| | 25 | ——— | π | 19 31 25 | 467 82 | 19 31 57 |

| ANNO CHRISTI MDCLXXX. | | IN CONSTELLATIONE PERSEI. | | Distantia per lineas diagonales. | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. | |
|---|---|---|---|---|---|---|
| Mense, Die. Styl. Vet. | Temp. App. H. M. | | | ° ' '' | Revol. Cent. | ° ' '' |
| ☽ Oct. 25 | 8 49 | *Lucida Arietis* & | ρ | 19 42 00 | 472 02 | 19 42 30 |
| | | | π | 19 31 30 | 467 82 | 19 31 57 |
| | 53 | | ω | 21 05 00 | 505 01 | 21 05 27 |
| ♂ 26 | 8 00 | *Lucida Arietis* & | κ | 24 52 25 | 595 74 | 24 53 03 |
| | 11 | | ν | 27 52 05 | 667 32 | 27 52 36 |
| | 18 | *Aldebaran* — & | κ | 33 38 45 | 805 48 | 33 38 35 |
| | 25 | | ν | 28 11 45 | 675 03 | 28 11 57 |
| MDCLXXXII. | | | | | | |
| ♄ Jan. 27 | 7 16 | *Ultima Caudæ Ursæ minoris, sive Polaris* & | α | 39 25 25 | 944 32 | 39 25 55 |
| | 22 | | ε | 49 18 30 | 1180 96 | 49 19 01 |
| | 28 | | ζ | 57 25 50 | 1375 69 | 57 26 16 |
| | 31 | | o | 57 00 40 | 1365 68 | 57 01 15 |
| | 36 | | β | 48 18 45 | 1157 23 | 48 19 31 |
| MDCLXXXIV. | | | | | | |
| ☿ Dec. 24 | | Inter duas in Pede Austrino | | 2 07 05 | 50 69 | 2 07 00 |
| | | | rep. | 2 07 10 | 50 67 | 2 6 57 |

| ANNO CHRISTI MDCLXXIX. | | IN CONSTELLATIONE SAGITTÆ. | | Distantia per lineas diagonales. | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. | |
|---|---|---|---|---|---|---|
| Mense, Die. Styl. Vet. | Temp. App. H. M. | | | ° ' '' | Revol. Cent. | ° ' '' |
| ☽ Junij 23 | 10 22 | *Caput Ophiuchi* & | α | 30 37 55 | 733 34 | 30 38 03 |
| | | | β | 30 48 40 | 737 68 | 30 48 57 |
| | | | δ | 32 24 35 | 775 84 | 32 24 27 |
| | | | ζ | 32 50 55 | 786 35 | 32 50 45 |
| | | | γ | 35 10 30 | 842 16 | 35 10 18 |
| | 11 00 | | η | 36 43 05 | 879 33 | 36 43 16 |
| MDCLXXX. | | | | | | |
| ♀ Sept. 17 | 8 29 | *Lucidior in Manu antecedenti Aquarij, ε,* & Sagitta | α | 32 09 45 | 769 91 | 32 09 37 |
| | | | β | 31 34 45 | 756 09 | 31 35 03 |
| | | | δ | 31 42 35 | 759 22 | 31 42 54 |
| | | | ζ | 32 04 05 | 767 64 | 32 03 57 |
| | | | γ | 31 22 30 | 751 21 | 31 22 51 |
| | | | η | 31 15 55 | 748 47 | 31 16 00 |
| ☽ 20 | 8 09 | *Caput Ophiuchi* & antecedens lucidior in Manu Aquarij | ε | 52 42 55 | 1262 39 | 52 43 10 |
| | 22 | Australis præcedentium in Trapezeia sub Sagitta | | 34 45 05 | 832 31 | 34 45 40 |
| | 29 | præcedentium Borealis | | 35 19 35 | 846 10 | 35 20 09 |
| | 36½ | sequentium Austrina | | 36 06 35 | 864 91 | 36 07 13 |
| | 42 | harum Borea | | 36 18 55 | 869 79 | 36 19 25 |

| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SAGITTÆ.* | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Sept. 20 | 8 47 | *Caput Ophiuchi* & quæ media eſt inter-Sagittam & Delphinum; Aquilæ, ρ, | 38 42 15 | 927 07 | 38 42 42 |
| MDCLXXXI. | | | | | |
| ♄ Sept. 3 | 9 47 | *Aquarij*, ε, — & Auſtrina præcedentium in Trapezeia ſub Sagitta, 2arum contig. præcedens | 29 03 40 | 695 95 | 29 04 16 |
| | | harum ſequens | 29 01 40 | 694 74 | 29 01 15 |
| | 54 | præcedentium Borea | 29 26 55 | 704 88 | 29 26 37 |
| | 57 | ſequentium Auſtrina | 27 45 30 | 664 49 | 27 45 30 |
| | 58 | harum Borea | 28 40 30 | 686 37 | 28 40 16 |
| | | quæ media inter Sagittam & Delphinum | 26 02 00 | 623 09 | 26 01 37 |

| Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SERPENTIS.* | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♀ Julij 6 | 10 42 | *Aquilæ Lucida* & penultima Caudæ | η | bis. | 600 40 | 25 04 45 |
| | 11 00 | *Caput Ophiuchi* & | η | | 461 81 | 19 16 49 |
| MDCLXXVIII. | | | | | | |
| ☽ Junij 17 | 10 43 | *Caput Ophiuchi* & | α | 27 57 05 | 669 26 | 27 57 28 |
| | 45 | | rep. | 27 57 15 | 669 32 | 27 57 37 |
| | 58 | *Lucida Lyræ* & | α | 50 32 55 | 1210 63 | 50 33 20 |
| | 11 08 | *Aquilæ Lucida* & | α | 61 02 10 | 1462 13 | 61 02 18 |
| | 34 | *Lucida Coronæ* & | α | 20 25 20 | 488 96 | 20 25 00 |
| | 39 | *Arcturus* — & | α | 25 01 15 | 599 14 | 25 01 36 |
| MDCLXXIX. | | | | | | |
| ♃ Maij 22 | 10 01 | *Spica Virginis* & | μ | 36 35 50 | 876 62 | 36 36 34 |
| | 14 | | σ | 45 36 40 | 1092 57 | 45 37 24 |
| MDCLXXX. | | | | | | |
| ☿ Junij 23 | 10 20½ | *Lucida & Auſtralis in Cauda Vulturis*, ζ, & | ε | 48 50 20 | 1169 85 | 48 51 12 |
| | 31 | | α | 49 58 10 | 1196 78 | 49 58 36 |
| | 41 | | λ | 49 13 00 | 1178 67 | 49 13 18 |
| | 44 | | δ | 51 27 30 | 1232 47 | 51 28 03 |
| | 48 | | χ | 49 26 10 | 1184 07 | 49 26 48 |
| | 50 | | β | 48 06 05 | 1152 16 | 48 06 50 |
| | 53 | | γ | 45 37 55 | 1093 02 | 45 38 33 |
| | 55½ | | κ | 47 18 30 | 1133 18 | 47 19 16 |
| | 11 00 | | ι | 48 57 35 | 1172 62 | 48 58 09 |
| | 04 | | ρ | 46 40 10 | 1117 73 | 46 40 33 |
| | 07 | | π | 44 10 20 | 1058 09 | 44 11 03 |
| | 23¼ | Ophiuchi Yed | | 45 53 00 | 1099 08 | 45 53 45 |

| ANNO CHRISTI MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SERPENTIS.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Junij 23 | 11 33½ | *Borealior in sinistra Manu Ophiuchi Ted* & —— π | 26 37 50 | 637 67 | 26 38 13 |
| | 36 | —— ::ρ | 25 17 00 | 605 34 | 25 17 07 |
| | 41 | —— ι | 24 41 35 | 591 25 | 24 41 48 |
| | 44 | —— κ | 22 42 55 | 543 78 | 22 42 50 |
| | 48 | —— γ | 19 57 20 | 477 86 | 19 57 10 |
| | 51 | —— β | 20 20 05 | 487 01 | 20 20 13 |
| | 57 | —— χ | 18 23 45 | 440 61 | 18 23 42 |
| | 12 03 | —— δ | 17 16 55 | 414 04 | 17 17 07 |
| | 05 | —— λ | 13 02 35 | 312 32 | 13 02 31 |
| | 07 | —— α | 12 35 45 | 301 68 | 12 35 52 |
| | 10 | —— ε | 10 03 20 | 240 79 | 10 03 30 |
| MDCLXXXI. | | | | | |
| ♄ Julij 30 | 9 32 | *Aquilæ*, β, — & —— ε | 60 51 15 | 1457 70 | 60 51 15 |
| ♂ Aug. 2 | 8 27 | *Aquilæ Lucida* & —— α | 61 01 45 | 1462 04 | 61 02 06 |
| | 29 | —— rep. | 61 01 45 | 1462 04 | 61 02 06 |
| | 31 | *Aquilæ*, β, — & —— ε | 60 51 30 | 1457 76 | 60 51 24 |
| | 34 | —— rep. | 60 51 30 | 1457 76 | 60 51 24 |
| ♃ 4 | 9 49 | *Humerus Aquarij præcedens* — & —— ζ | 52 37 25 | 1260 42 | 52 38 06 |
| | 51 | —— η | 47 27 00 | 1136 39 | 47 27 18 |
| | 54 | quæ præced. θ paulul. ad Auft. | 42 19 00 | 1013 37 | 42 19 01 |
| | 57 | quæ infra θ —— | 39 21 45 | 942 57 | 39 21 31 |
| | 10 00 | —— duplex —— θ | 39 59 35 | 957 65 | 39 59 21 |
| | 08 | quæ fupra θ —— | 40 48 05 | 977 21 | 40 48 24 |
| MDCLXXXII. | | | | | |
| ☽ Maij 15 | 10 08 | *Spica Virginis* & Lucida in Collo —— α | 38 47 15 | 929 01 | 38 47 35 |
| | 10 | —— rep. | 38 47 05 | 928 99 | 38 47 31 |
| MDCLXXXVIII. | | | | | |
| ♀ Junij 22 | 9 55 | *Vindemiatrix* & Lucida Colli —— α | 40 14 45 | 963 75 | 40 14 39 |
| | 10 03 | —— rep. | 40 15 00 | 963 89 | 40 15 00 |

| ANNO CHRISTI MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SERPENTARII.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Maij 30 | 10 31 | *Lanx Austr.* ♎α & —— φ | | 575 61 | 24 02 37 |
| | 41 | —— χ | | 552 16 | 23 03 52 |
| | 56 | —— ψ | | 538 65 | 22 29 52 |
| | 11 02 | —— ω | | 587 55 | 24 32 33 |
| | 39 | *Serpentarii ad Genu antecedens*, ζ, & Ejusdem —— φ | | 148 57 | 6 12 31 |
| | 46 | —— χ | | 197 71 | 8 15 39 |
| | 51 | —— ψ | | 238 72 | 9 58 24 |

| ANNO CHRISTI MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *SERPENTARII.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Maij 30 | 12 25 | *Quæ post Coxas Ophiuchi Serpentis* ——— & ——— ω | | 346 41 | 14 27 52 |
| | 31 | quæ in recta cum φ, & Lance borea ——— m | | 255 09 | 10 39 21 |
| | 44 | *Boreal. in præcedente Manu Yed, δ,* & ——— m | | 372 69 | 15 33 37 |
| | 57 | quæ post Coxas Ophiuchi, Serpentis ——— | | 450 46 | 18 48 25 |
| ♂ Junij 5 | 10 08 | *Quæ post Coxas Ophiuchi* ——— & ——— δ | | 450 37 | 18 48 18 |
| | 19 | *Inferior in Humero sequente, γ,* & ——— δ | | 580 27 | 24 14 18 |
| ♃ 14 | 12 15 | *In sinistro Humero Sagittarij, σ,* ——— & clara in planta pedis, ——— θ | | 503 52 | 21 01 42 |
| | 26 | quæ præced. hanc ad Aust. A | | 533 89 | 22 17 57 |
| | 32 | quæ claram sequitur magis Borea ——— B | | 483 58 | 20 11 31 |
| | 39 | quæ hanc sequitur, ——— C | | 457 44 | 19 05 52 |
| ♀ 15 | 10 00 | *Arcturus* ——— & Ophiuchi Caput, ——— α | | 1151 88 | 48 06 07 |
| | 12 | ——— β | | 1259 80 | 52 36 36 |
| | 17 | ——— γ | | 1300 60 | 54 18 37 |
| | 23 | ——— ι | | 938 19 | 39 10 33 |
| | 27 | ——— κ | | 965 26 | 40 18 27 |
| | 31 | *Lyræ Lucida* & ——— α | | 707 75 | 29 33 51 |
| ☽ 18 | 10 05 | *Lyræ Lucida* & ——— κ | | 881 42 | 36 48 37 |
| | 11 | ——— ι | | 877 90 | 36 39 48 |
| | 17 | ——— α | | 707 94 | 29 34 19 |
| | | ——— rep. | | 707 90 | 29 34 13 |
| | 30 | ——— γ | | 903 40 | 37 43 34 |
| | 36 | ——— β | | 868 74 | 36 16 51 |
| ♃ 21 | 9 49 | *Lyræ Lucida* & ——— κ | | 881 42 | 36 48 37 |
| | 10 30 | *Caput Ophichi, α,* ——— & Yed ——— δ | | 617 13 | 25 46 40 |
| | 35 | ad Genu præcedens ——— ζ | | 651 72 | 27 13 30 |
| | 59 | *In sinistro Humero Sagittarij, σ,* & Antares ——— | | 779 37 | 32 33 21 |
| | 11 13 | ——— A | | 533 82 | 22 17 46 |
| | | * *A * * *Hæc habet contiguam parvam præcedentem, & clariores duas sequentes.* | | | |
| | 29 | *Inferior in sequente Manu Serpentarij, ν,* ——— & Ejusdem ——— A | | 469 52 | 19 36 07 |
| | 41 | ——— θ | | 420 58 | 17 33 31 |
| | 46 | ——— B | | 391 39 | 16 20 25 |

| ANNO CHRISTI MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. M. H. | IN CONSTELLATIONE *SERPENTARII.* | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♃ Junij 21 | 11 55 | *Inferior in ſequente manu Serpentarij, ν* & Ejuſdem ———— | C | | 374 14 | 15 37 15 |
| | 12 08 | ———— | D | | 298 60 | 12 28 12 |
| | 12 | ———— | ρ | | 348 67 | 14 33 33 |
| | 24 | *In Humero ſiniſtro Sagittarij, σ,* & ———— | D | | 407 69 | 17 01 13 |
| | 31 | ———— | ρ | | 531 00 | 22 10 42 |
| | 38 | inferior in ſequente Manu | μ | | 507 47 | 21 11 36 |
| | 54 | *In præced. Manu, Serpentarij Yed* & ———— | ν | | 638 60 | 26 40 30 |
| | 13 03 | ———— | β | | 567 88 | 23 43 16 |
| | 16 | *Inferior in ſequente Manu, ν,* & ———— | β | | 355 20 | 14 49 55 |
| ♃ 28 | 10 17 | *Aquilæ lucida* & ———— | ε | | 1308 00 | 54 37 09 |
| | 20 | Yed ———— | δ | | 1325 12 | 55 19 57 |
| MDCLXXVIII. | | | | | | |
| ♂ Julij 16 | 10 00 | *Arcturus* —— & ———— | α | 48 05 55 | 1152 00 | 48 06 22 |
| | 06½ | ———— | ι | 39 10 20 | 938 20 | 39 10 34 |
| | 11½ | ———— | κ | 40 18 00 | 965 19 | 40 18 16 |
| | 16½ | ———— | β | 52 36 40 | 1259 91 | 52 36 53 |
| | 23 | ———— | γ | 54 18 50 | 1300 73 | 54 18 57 |
| | 30 | ———— | λ | 37 15 40 | 892 32 | 37 15 48 |
| | 38 | ———— | δ | 37 06 20 | 888 47 | 37 06 10 |
| | 42 | ———— | ε | 38 29 50 | 921 99 | 38 30 03 |
| | 50½ | ———— | ζ | 45 51 25 | 1098 24 | 45 51 37 |
| ♀ 17 | 9 57 | *Arcturus* —— & ———— | ζ | 45 51 15 | 1098 13 | 45 51 21 |
| | 10 06½ | *Lyræ lucida* —— & ———— | δ | 53 39 30 | 1285 00 | 53 39 40 |
| | 10 | ———— | ε | 53 57 00 | 1292 11 | 53 57 30 |
| | 21 | ———— | ζ | 27 14 45 | 652 49 | 27 15 25 |
| | 35 | *Quæ in ancone Alæ Auſtral. Cygni, ε,* —— & ———— | α | 48 15 45 | 1155 84 | 48 16 03 |
| MDCLXXIX. | | | | | | |
| ♃ Maij 22 | 9 47 | *Spica Virginis* & ———— | δ | 42 32 50 | 1019 01 | 42 33 10 |
| | 54 | ———— | ε | 43 18 10 | 1036 90 | 43 18 00 |
| | 10 08 | ———— | λ | 47 59 45 | 1149 68 | 48 00 33 |
| ☽ Junij 2 | 9 34 | *Aquilæ lucida* & ———— | ζ | 51 52 35 | 1242 29 | 51 52 45 |
| | 39 | ———— | ε | 54 36 35 | 1307 73 | 54 36 29 |
| | 43 | ———— | δ | 55 18 55 | 1324 70 | 55 18 54 |
| | 10 47 | *Spica Virginis* & ———— | m | 47 52 00 | 1146 56 | 47 52 50 |
| ☽ 23 | 11 04 | *In Humero ſiniſtro Sagittarij, σ,* — & ———— | σ | 22 02 00 | 527 54 | 22 02 01 |
| | | ———— | θ | 21 01 30 | 503 52 | 21 01 42 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Serpentarii.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Junij 25 | 11 | *Infer. & lucid. in Hum. hujus præc. κ,* & | ω | 31 26 10 | 752 77 | 31 26 48 |
| | | | ψ | 30 30 30 | 730 71 | 30 31 20 |
| | 32 | | χ | 28 48 20 | 689 85 | 28 49 04 |
| | | | φ | 26 46 00 | 641 16 | 26 46 55 |
| | | | m | 27 22 40 | 655 74 | 27 23 34 |
| | | *Superior in sequente Humero, β,* — & | B | 28 58 10 | 693 76 | 28 58 48 |
| | 50 | | θ | 29 56 40 | 717 19 | 29 57 27 |
| | | | σ | 29 26 10 | 705 03 | 29 27 01 |
| ♀ 27 | 10 21 | *Super. in sequente humero, β,* — & | A | 31 43 40 | 759 97 | 31 44 45 |
| | | | C | 28 37 40 | 685 70 | 28 38 39 |
| | | | D | 26 11 40 | 627 54 | 26 12 50 |
| | | | ρ | 26 12 10 | 627 68 | 26 13 07 |
| ♂ Dec. 2 | 5 08 | *Aquilæ lucida* & | α | 33 30 45 | 802 40 | 33 30 52 |
| ☉ 21 *vel* ☽ *mane* | 18 54 | *Spica Virginis* & Yed | δ | 42 32 25 | 1018 84 | 42 32 43 |
| | | | rep. | 42 32 30 | 1018 88 | 42 32 49 |
| MDCLXXXI. | | | | | | |
| ☉ Jan. 23 | 18 38½ | *Aquilæ lucida* & Caput | α | 33 31 05 | 802 33 | 33 30 42 |
| | 42½ | | rep. | 33 31 05 | 802 37 | 33 30 48 |
| | 46 | *Arcturus* — & Caput | α | 48 06 00 | 1151 90 | 48 06 09 |
| | 49 | | rep. | 48 06 00 | 1151 95 | 48 06 13 |
| ☿ Maij 25 | 14 20 | *Aquilæ lucida* & Caput | α | 33 31 00 | 802 35 | 33 30 45 |
| | | | rep. | 33 31 05 | 802 35 | 33 30 45 |
| ☽ Junij 6 | 11 20 | *Sagittarii, σ,* & Yed | δ | 44 35 40 | 1067 97 | 44 35 46 |
| | 41 | *Arcturus* — & | :: υ | 42 41 20 | 1022 18 | 42 41 06 |
| | 45 | | :: ε | 48 23 10 | 1158 67 | 48 23 09 |
| | 48 | | :: η | 55 23 00 | 1326 31 | 55 22 52 |
| | 51 | | :: π | 55 43 20 | 1334 60 | 55 43 36 |
| | 54 | Serpentis | :: ξ | 60 31 10 | 1449 63 | 60 31 05 |
| | 57 | Serpentis | :: ο | 59 56 35 | 1435 86 | 59 56 39 |
| | 12 04 | *Humerus Sagittarij, σ,* & | A | 22 18 00 | 533 84 | 22 17 51 |
| | 12 | juxta θ in anteced. ad Bor. | σ | 22 02 20 | 527 61 | 22 02 12 |
| | 14 | | θ | 21 01 50 | 503 52 | 21 01 42 |
| | | | B | 20 11 35 | 483 57 | 20 11 33 |
| | | | C | 19 06 00 | 457 45 | 19 05 54 |
| | | | D | 17 01 00 | 407 54 | 17 00 51 |
| | | | ρ | 22::10 50 | 531 01 | 22 10 45 |
| | | | β | 35 21 30 | 846 53 | 35 21 19 |
| ♄ Julij 30 | 9 45 | *Aquilæ, β,* — & | ι | 44 57 25 | 1076 82 | 44 57 55 |
| | 48 | | rep. | 44 57 20 | 1076 79 | 44 57 51 |
| | 52 | | κ | 44 01 25 | 1054 46 | 44 01 58 |
| | 59 | *Os Pegasi* — & | α | 61 02 50 | 1462 49 | 61 03 13 |
| | 10 01 | | rep. | 61 02 55 | 1462 50 | 61 03 15 |
| | 06¼ | | β | 59 51 30 | 1433 82 | 59 51 33 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Serpentarii.* | | Distantiae per lineas diagonales. ° ′ ″ | Distantiae per Cochleae Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Julij 30 | 10 11 | *Os Pegasi* — & | β rep. | 59 51 30 | 1433 80 | 59 51 30 |
| | 16 | | γ | 59 03 45 | 1414 88 | 59 04 13 |
| ♂ Aug. 2 | 8 37 | *Quae in Manu Antinoi, θ,* & Yed | δ | 59 14 30 | 1419 16 | 59 14 57 |
| | 39 | | rep. | 59 14 30 | 1419 16 | 59 14 57 |
| ☿ 4 | 9 19 | *Os Pegasi* — & | α | 61 03 05 | 1462 56 | 61 03 40 |
| | 21 | | rep. | 61 03 05 | 1462 58 | 61 03 37 |
| | 24 | informium quae ad | n | 55 45 15 | 1335 54 | 55 45 57 |
| | 26 | | o | 55 53 45 | 1338 94 | 55 54 27 |
| | 28 | | k | 55 55 40 | 1339 59 | 55 56 05 |
| | 31 | | p | 54 48 00 | 1312 56 | 54 48 30 |
| | 37 | | r | 50 51 00 | 1217 83 | 50 51 22 |
| | 41 | lucidissima ad | q | 53 22 40 | 1278 28 | 53 22 47 |
| ♃ Sept. 1 | 8 59 | *Antinoi, θ,* — & | ι | 50 15 10 | 1203 59 | 50 15 40 |
| | 9 02 | | κ | 49 13 00 | 1178 64 | 49 13 13 |
| MDCLXXXII. | | | | | | |
| ☽ Maij 15 | 10 15 | *Spica Virginis* & Yed | δ | 42 32 45 | 1018 92 | 42 32 55 |
| | 19 | | ε | 43 18 15 | 1036 84 | 43 17 50 |
| ♀ Sept. 22 | 7 59 | *Praecedens Humerus Aquarij,* & | β | 57 50 10 | 1385 27 | 57 50 13 |
| | 8 02½ | | rep. | 57 49 50 | 1385 17 | 57 50 00 |
| | 06 | | iter. | 57 50 00 | 1385 24 | 57 50 09 |
| | 11 | | γ | 56 27 30 | 1352 21 | 56 27 38 |
| | 15 | | rep. | 56 27 30 | 1352 16 | 56 27 30 |
| MDCLXXXIII. | | | | | | |
| ☉ Junij 17 | 10 29 | *Aquilae lucida* & Caput. *Fixam quam α Notavi, adjacet Bayeri θ, ad Boream: Bayeri α Sextante non fuerit observata.* | α | 33 31 25 | 802 58 | 33 31 20 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Trianguli.* | | Distantiae per lineas diagonales. ° ′ ″ | Distantiae per Cochleae Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Dec. 20 | 9 30 | *Cornu Tauri Boreum* — & | α | 46 09 20 | 1105 46 | 46 09 46 |
| | 35 | | ε | 43 25 20 | 1039 84 | 43 25 21 |
| | 41 | parvula infra γ, | ::ζ | 40 42 35 | 975 29 | 40 43 36 |
| | 46 | | γ | 40 23 35 | 967 37 | 40 23 44 |
| | 49 | | δ | 40 29 55 | 970 02 | 40 30 22 |
| | 10 01 | *Lucida in Mandibula Ceti* — & | α | 30 18 25 | 725 65 | 30 18 42 |
| | 05 | | ε | 32 18 45 | 773 37 | 32 18 16 |
| | 09 | | β | 33 13 45 | 795 52 | 33 13 40 |
| | 15 | | ::ζ | 31 11 45 | 746 83 | 31 11 54 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Trianguli.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Dec. 20 | 10 | *Lucida in Mandibula Ceti* & —— | γ | 31 32 40 | 755 16 | 31 32 44 |
| | 25 | —— | δ | 31 58 05 | 765 29 | 31 58 05 |
| | 30 | *Cornu Tauri Boreum* & Lucidissima Δ^i, —— | β | 41 52 15 | 1003 01 | 41 53 04 |
| ☽ 22 | 7 01 | *Cornu Tauri Boreum* & Mandibula Ceti —— | | 42 03 00 | 1007 13 | 42 03 24 |
| | 04 | —— rep. | | 42 03 00 | 1007 16 | 42 03 29 |
| | 09 | —— Trianguli | ε | 43 25 20 | 1039 69 | 43 24 59 |
| MDCLXXX. | | | | | | |
| ♃ Feb. 12. | 7 59 | *Cornu Tauri Boreum* & informium infra Triangulum Australissimum. | a | 40::48 50 | 977 81 | 40 49 55 |
| | 8 03 | Borealium præcedens, — | b | 41 53 55 | 1003 78 | 41 55 02 |
| | 08 | Borealium sequens —— | c | 38 28 15 | 921 48 | 38 28 42 |
| ♄ 14 | 7 30 | *Lucida in Mandibula Ceti* & Australissima —— | a | 26 36 40 | 637 11 | 26 36 50 |
| | 34 | —— | b | 28 44 05 | 687 90 | 28 44 07 |
| | 38 | —— | c | 26 48 50 | 642 03 | 26 49 09 |
| MDCLXXXI. | | | | | | |
| ☉ Juij 31 | 15 32 | *Cornu Tauri Boreum* & —— | ζ | 40 42 05 | 974 79 | 40 42 21 |
| | 39 | *Lucida in Mandibula Ceti,* & —— | ζ | 31 57 45 | 765 07 | 31 57 31 |
| | 41 | —— | γ | 31 32 20 | 754 99 | 31 32 18 |
| | 43 | —— | δ | 31 11 30 | 746 67 | 31 11 30 |
| MDCLXXXII. | | | | | | |
| ♄ Jan. 28 | 8 31½ | *Polaris* —— & —— | β | 54 17 15 | 1300 13 | 54 17 24 |
| | 39 | —— | δ | 55 01 35 | 1317 93 | 55 01 55 |
| | 42 | —— | γ | 55 24 55 | 1327 43 | 55 25 40 |
| | 45 | Australissima in basi — | ζ | 55 54 15 | 1339 17 | 55 55 01 |
| | 49 | in Apice —— | α | 59 40 55 | 1429 43 | 59 40 35 |

| Anno Christi MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | In Constellatione *Ursæ Majoris.* | | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☉ Feb. 10 | 17 26 | *Arcturus,* — & —— | α | 53 48 45 | 1288 71 | 53 49 00 |
| | 30 | —— | γ | 43 48 55 | 1049 27 | 43 49 00 |
| | 34 | —— | δ | 43 46 50 | 1048 48 | 43 47 01 |
| | 42 | —— rep. | α | 53 49 00 | 1288 72 | 53 49 02 |
| | 44 | —— | β | 51 33 10 | 1234 59 | 51 33 22 |
| | 46 | Alioth —— | ε | 39 41 55 | 950 82 | 39 42 12 |
| | 51 | —— | ζ | 36 55 00 | 883 93 | 36 54 55 |
| | 52 | —— | η | 30 29 05 | 729 85 | 30 29 16 |

| ANNO CHRISTI MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE URSÆ MAJORIS. | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Feb. 1 | 8 50 | *Castor*, —— & —————— | λ | 33 44 15 | 807 54 | 33 43 45 |
| | 56 | —————— | μ | 34 35 55 | 828 24 | 34 35 20 |
| | 9 05 | —————— | ι | 22 46 50 | 545 37 | 22 46 50 |
| | 10 | —————— | κ | 22 49 35 | 546 45 | 22 49 32 |
| | 26 | *Cor Leonis* — & —————— | κ | 37 44 45 | 903 65 | 37 44 06 |
| | 31 | —————— | ι | 38 51 40 | 930 60 | 38 51 30 |
| | 44 | *Lucida in Cervice Leonis* —— } & —————— | λ | 23 04 20 | 552 26 | 23 04 07 |
| | 53 | —————— | μ | 21 38 35 | 518 26 | 21 38 37 |
| | 10 02 | *Cor Leonis* — & ultima Caudæ —————— | η | 58 20 10 | 1397 31 | 58 20 21 |
| ☿ 5 | 8 36 | *Cor Leonis*, — & —————— | ν | 26 30 55 | 635 12 | 26 31 46 |
| | 47 | —————— | ξ | 25 22 30 | 607 79 | 25 23 15 |
| | 55 | *Castor*, — & —————— | ξ | 46 59 50 | 1125 48 | 47 00 00 |
| ♃ 6 | 8 51 | *Castor*, —— & —————— | α | 44 39 50 | 1069 64 | 44 40 01 |
| | 55 | —————— | β | 43 03 00 | 1030 82 | 43 02 45 |
| | 9 01 | —————— | δ | 53 08 25 | 1272 38 | 53 08 03 |
| | 07 | —————— | ε | 58 33 15 | 1402 30 | 58 32 51 |
| ♀ Maij 2 | 9 30 | *Arcturus*, — & informis inter Caudam Ursæ & Leonis —— } | | 25 40 40 | 614 88 | 25 41 00 |
| | 40 | *Cauda Leonis*, & eadem —————— | | 27 56 45 | 669 33 | 27 57 39 |
| MDCLXXXI. | | | | | | |
| ♀ Sept. 30 | 7 38 | *Lucida Coronæ*, & ultima Caudæ —————— | η | 30 34 30 | 732 02 | 30 34 44 |
| | 41 | —————— | ζ | 36 52 15 | 882 93 | 36 52 18 |
| | | ***Hæc habet Comitem Exiguam 1. gr. ab ea in antecedentia distantem.*** | | | | |
| | 43 | insidens —————— | g | 36 45 25 | 880 19 | 36 45 25 |
| | 45 | —————— | ε | 40 59 35 | 981 82 | 40 59 58 |
| | 8 00 | —————— | δ | 46 17 30 | 1108 66 | 46 17 48 |
| | 05 | —————— | γ | 48 23 00 | 1158 80 | 48 23 28 |
| | 12 | —————— | β | 56 04 45 | 1343 20 | 56 05 06 |
| | 15½ | —————— | α | 56 11 15 | 1345 51 | 56 10 52 |
| ♀ Oct. 21 | 7 31 | *Ultima Caudæ*, η, & Ejusdem —————— | θ | 39 10 15 | 938 22 | 39 10 37 |
| | 38 | Comes hujus in consequent. | | 38 50 05 | 930 34 | 38 50 54 |
| | 45 | —————— | f | 42 40 55 | 1022 32 | 42 41 27 |
| | 48 | —————— | e | 40 42 15 | 975 16 | 40 43 16 |
| | 51 | —————— | φ | 35 43 25 | 855 44 | 35 43 32 |
| | 8 07 | —————— | υ | 34 39 25 | 829 74 | 34 39 15 |
| | 11 | —————— | τ | 36 21 25 | 870 41 | 36 20 59 |
| | 14 | duarum hanc proxim. præcedens Borea —— } | | 38 32 35 | 923 02 | 38 32 35 |
| | 17 | —————— Austrina | | 38 37 30 | 924 89 | 38 37 15 |
| | 19 | media inter has & *o* —— | b | 40 52 05 | 978 83 | 40 52 28 |
| | 23 | —————— | o | 43 53 25 | 1050 96 | 43 53 13 |
| | | —————— | A | 41 35 25 | 995 87 | 41 35 12 |
| | 53 | præced. & Borea ad —— | π | 41 54 25 | 1003 66 | 41 54 44 |
| | 9 02 | sequens Austrina & minor ad —— } | π | 41 29 35 | 993 65 | 41 29 37 |
| | 04 | duarum ad σ præcedens Austrina —— } | | 38 11 15 | 914 42 | 38 11 03 |
| | 06 | sequens & Borea ad — | σ | 37 57 40 | 908 89 | 37 57 13 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE *URSÆ MAJORIS.* | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♀ Oct. 21 | 9 08 | *Ultima Caudæ, η,* & —————— | ρ | 38 38 00 | 925 08 | 38 37 44 |
| | 11 | —————— | d | 35 35 55 | 852 26 | 35 35 35 |
| | 14 | quæ supra *d*, trium Lucid. & sequens —— | | 34 04 55 | 839 94 | 35 04 45 |
| MDCLXXXII. | | | | | | |
| ☿ Mar. 15 | 8 55 | *Polaris,* —— & —————— | ι | 42 02 10 | 1006 95 | 42 02 57 |
| | 9 00 | —————— | κ | 42 57 05 | 1028 76 | 42 57 35 |
| | 08½ | informium infra Ursam Majorem —— | η | 48 17 15 | 1156 69 | 48 18 10 |
| | 13 | —————— | *p* | 51 39 40 | 1237 43 | 51 40 30 |
| | 18 | —————— | *q* | 53 20 50 | 1277 64 | 53 21 10 |
| | 24 | —————— | *r* | 55 46 05 | 1335 98 | 55 47 03 |
| | 29 | *Lucida in Cervice Leonis, γ,* —— & —————— | η | 27 34 50 | 660 35 | 27 35 07 |
| | 34 | —————— | *p* | 24 26 20 | 585 08 | 24 26 20 |
| | 37 | —————— | *q* | 21 34 25 | 516 45 | 21 34 10 |
| | 41½ | —————— | *r* | 19 29 50 | 467 02 | 19 29 57 |
| ♄ Maij 20 | 10 07 | *Polaris,* —— & —————— | κ | 42 57 05 | 1028 45 | 42 56 48 |
| | 15 | —————— | ι | 42 02 05 | 1006 53 | 42 01 54 |
| | 20 | —————— | θ | 38 28 35 | 921 49 | 38 28 44 |
| | 29 | Comes hujus perexigua in consequentia —— | | 38 08 55 | 913 58 | 38 08 57 |
| | 35½ | —————— | μ | 48 50 45 | 1169 79 | 48 51 03 |
| | 40 | —————— | λ | 47 25 00 | 1135 49 | 47 25 03 |
| | 43 | —————— | ν | 57 23 55 | 1374 75 | 57 23 55 |
| | 50 | —————— | ξ | 58 54 35 | 1411 03 | 58 54 36 |
| | 11 07 | —————— | γ | 36 52 20 | 883 05 | 36 52 36 |
| | 23 | —————— | η | 41 24 15 | 991 70 | 41 24 45 |
| ♄ 27 | 10 14 | *Polaris* —— & —————— | α | 28 42 30 | 687 31 | 28 42 39 |
| | 20 | —————— | β | 34 04 40 | 815 95 | 34 04 47 |
| | 26 | —————— | ψ | 45 58 25 | 1100 91 | 45 58 21 |
| | 31 | —————— | χ | 42 47 05 | 1024 55 | 42 47 39 |
| | 35 | —————— | γ | 36 52 40 | 883 21 | 36 53 00 |
| | 39 | —————— | δ | 33 35 20 | 804 19 | 33 35 21 |
| | 49 | —————— Cor Caroli —— | | 52 21 40 | 1253 97 | 52 21 57 |
| | 56 | —————— | ε | 34 43 00 | 831 28 | 34 43 06 |
| | 11 01 | clarissima trium ad —— | ζ | 35 47 00 | 856 75 | 35 46 48 |
| | 05 | minor vel insidens ad ζ — *Tertia Telescopica est.* | g | 35 43 20 | 855 39 | 35 43 24 |
| | 14 | —————— | η | 41 24 15 | 991 71 | 41 24 47 |
| MDCLXXXVIII. | | | | | | |
| ♀ Mar. 9 | 9 43 | *Regulus* — & informis inter Caudam Ursæ & Leonem, Cor Caroli | | 45 36 00 | 1092 10 | 45 36 15 |
| | 47 | —————— rep | | 45 36 00 | 1092 10 | 45 36 15 |

| ANNO CHRISTI MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | IN CONSTELLATIONE URSÆ MINORIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Dec. 21 | 9 00 | Ursæ Majoris in præcedens, α, & hujus —— γ | 25 41 00 | 614 87 | 25 41 02 |
| | 06 | —— β | 23 19 05 | 558 13 | 23 18 50 |
| | 11 | 2arum in propinq. Austral. a | 21 58 30 | 526 23 | 21 58 45 |
| | 16 | harum Borea —— b | 21 26 45 | 513 57 | 21 26 57 |
| | 23 | lucid. & seq. 2arum ad η | 28 42 15 | 687 31 | 28 42 39 |
| | 28 | —— ζ | 26 28 00 | 633 66 | 26 28 10 |
| | 33 | —— θ | 25 48 35 | 618 06 | 25 49 01 |
| | 40 | —— ε | 28 39 10 | 686 15 | 28 39 44 |
| | 49 | —— δ | 28 51 10 | 690 84 | 28 51 28 |




I. B. Catenaro In. et deli. L. du Guernier Sculp.

# HISTORIÆ COELESTIS
## LIBRI PRIMI,
## PARS TERTIA;
### Cometarum & Planetarum Primariorum.
A Fixis DISTANTIAS

## GRENOVICI
### In Observatorio Regio,
### Ab Anno 1676, ad Annum 1689.
SEXTANTE Captas,

COMPLECTENS.

## OBSERVATIONES COMETÆ, ANNI MDCLXXVII.

MEnse Paschatis, rumor percrebuit apparuisse Cometam, Eurum inter & Aquilonem, matutinis temporibus; ejus frequenter expectavi exortum, sed frustra, propter nubes usque Aprilis 23; quando horâ 2ª circiter *p. m. n.* Cœlo valde sereno, Caudam ab Horizonte sursum erectam conspexi; latam in summitate ¼ diametri Lunaris; longam 6 circiter gradus, Caput Telescopio pedum sedecim consideratum, non rotundum utique sed asperum apparuit, coloris prorsus Saturnini vel obtusioris, vix unius minuti Diametro. Hujus captæ Distantiæ.

| Anno Christi MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | Cometæ à Fixis Distantiæ Observatæ. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Apr. 22 vel ☉ mane. | 14 14 | ab Alamech Andromedæ —— | | 273 88 | 11 26 19 |
| | 47¼ | —— rep. | | 274 21 | 11 27 09 |
| | 55 | à Capella —— | | 743 13 | 31 02 39 |
| | 59 | —— rep. | | 743 16 | 31 02 43 |
| | 15 12 | à Capite Medusæ, Algol —— | | 198 38 | 08 17 20 |
| | 21½ | à Lucida in Cingulo Andromedæ, Mirach. | | 469 17 | 19 35 21 |
| | 28 | ab Alamech Andromedæ —— iterùm. | | 276 89 | 11 33 50 |
| | 36⅓ | à Capella —— iterùm. | | 742 32 | 31 00 38 |
| | | *Hinc Cometa 15 h. 28′, in ♉ 14° 50′ ½ Lat. Bor. 17.08 ½.* | | | |
| ☉ 23 vel ☽ mane. | 14 51 | Distantia Capitis Cometæ à Mirach. | | 506 72 | 21 09 43 |

*Cœlum sparsis nubibus plerumque subductum, quarum per hiatum capta fuerit hæc intercapedo. Plures non licuit dirimere. Notavi duntaxat Caudam apparuisse breviorem quam heri, forsan propter diei lucem.*

*Hesterno Mane protendi videbatur versus fixam ad Genu Cassiopeæ; nunc directionem determinare nòn potui propter dictas nubes.*

## OBSERVATIONES COMETÆ. ANNI MDCLXXX & LXXXI.

1680. ♀ Dec. 10 *vesperi*

*Dum Sextantem retegunt ministri ad fixas observandas, Cometæ Caudam prætenuem advertimus, ab Horizonte sursùm erectam, & ad tres Aquilæ fixas, literis ω, A, b, à Bayero signatas, extensam, nòn perpendiculariter sed aliquantulum ad dextram inclinatam Medio transire videbatur per d, δ, & ε, ejusdem Constellationis.*

♄ 11 *vesperi.*

*Nondum deficiente die, Cauda quasi trabs ab Horizonte sursum erecta conspiciebatur, ad dextram etiàm parùm à perpendiculo declinaris. Factis tenebris tangere videbatur duas fixas in Capite Sagittæ.*

☉ 12 *vesperi.*

*Densior videbatur coma, latior & porrectior, ab obscura & irregulari stella ascendens, cujus captæ Distantiæ,*

| H. M. | | | | |
|---|---|---|---|---|
| 4 41 | A Planeta ♀ᵉ —— | 23 58 45 | 574 06 | 23 58 43 |
| 46½ | ab Aquilæ lucida —— | 28 15 30 | 676 74 | 28 16 10 |
| 49½ | à ♀ᵉ iterùm —— | 23 57 35 | 573 60 | 23 57 35 |

*Extremitas Caudæ tangebat medium Sagittæ vel paulo ultra extendi videbatur, duas circitèr horas post Solis Occasum.*

☿ 15

*Cometæ Cauda, nondùm deficiente die, pertingere videbatur ad fixam in Australi Ancone Cygni; transibat per Lucidam Aquilæ, adeò ut tertia pars latitudinis à læva, reliquæ ⅔ à dextra secari viderentur; Caput observari non potuit propter densas, mox succedentes, nubes.*

♄ 18 *vesperi.*

*Cometæ Caput videri nòn potuit propter nubes Horizonti impendentes, Cauda verò hora 7ª ad dextram Delphini transibat, è qua Margo ipsius sinistra vix plus Semidiametro Lunæ distetit, lata quanta est distantia inter remotissimas Rhombi fixas; emicuit per ipsam ζ, penultima in Ala Austrina Cygni, adeo ut pars quarta totius latitudinis ad lævam, reliquæ ¾ ad dextram fixæ stare viderentur. Extendebatur ad lævam à remotissimis fixis in Cauda Cygni & ad parem ab Horizonte distantiam, non recta sed paululùm incurvata sursum, Boream versus, & melius à sinistra quàm à dextra definita.*

| ANNO CHRISTI MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | COMETÆ à FIXIS DISTANTIÆ OBSERVATÆ. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent | ° ′ ″ |
|---|---|---|---|---|---|
| ♂ Dec. 21 | 6 24¾ | Cometæ Caput ab Aquilæ lucida ——— | 10 24 05 | 248 99 | 10 24 00 |
| | 32½ | ab Ore Pegasi ——— | 20 37 15 | 494 16 | 20 38 13 |
| | 39½ | Aquilæ lucida ——— | 10 25 00 | 249 34 | 10 24 52 |
| | | *Nulla stella in Capite nec Nucleus apparuit, sed lucula quædam unius circitèr minuti latitudine, Nebulosæ ad Cingulum Andromedæ valde similis, nisi quod duplo major erat. Cauda fixas Delphini à dextra reliquerat, incurvata paululùm, concavitate dextram convexitate sinistram respiciente: directio ejus inter Shedir Cassiopeiæ & β in dorso Cathedræ, è quibus utrisq; extremitas æqualiter distare videbatur splendente Luna arctior quàm vespera diei Saturni, sed distinctior à læva quàm à dextra, ut semper anteà, stella in Capite nudis oculis tertiæ circitèr magnitudinis apparuit* | | | |
| ♀ 24 | 6 09 | Cometæ Caput ab Ore Pegasi ——— | 08 32 00 | 204 41 | 08 32 25 |
| | 12 | ——— rep. | 08 31 40 | 204 32 | 08 32 12 |
| | 24 | ab Ancone Alæ Austr. Cygni | 24 17 15 | 581 51 | 24 17 24 |
| | 28 | ——— rep. | 24 17 15 | 581 52 | 24 17 25 |
| | 31⅓ | Os Pegasi —— ab Ancone Alæ Austr. Cygni | 27 30 15 | 658 49 | 27 30 28 |
| | | *Cauda vix ultra dorsum Cathedræ Cassiopeiæ extendebatur, Lunæ plenæ lumine & nubibus forsan aliquid è longitudine præscindentibus; ventus flabat vehementiùs, & nubes nonnunquàm observationes turbavere.* | | | |
| ☉ 26 | 5 09 | Cometæ Caput à Markab Pegasi ——— | 20 23 35 | 488 61 | 20 24 15 |
| | 12 | ——— rep. | 20 23 20 | 488 58 | 20 24 10 |
| | 16 | ab Ancone Alæ Austr. Cygni | 22 46 15 | 545 06 | 22 46 03 |
| | 19 | ——— rep. | 22 46 05 | 545 03 | 22 45 58 |
| | 23 | Markab Pegasi & dicta Cygni, ——— | 36 23 50 | 871 49 | 36 23 40 |
| | | *Cauda rarior quam antehàc & brevior, transibat per η Pegasi; Caput confusa lucula, nudis verò oculis stella satis clara paulo minor quam Os Pegasi, apparuit.* | | | |
| ☿ 29 | 7 45 | Cometæ Caput à Markab Pegasi ——— | 10 15 50 | 245 73 | 10 15 51 |
| | 47½ | ——— rep. | 10 15 30 | 245 62 | 10 15 35 |
| | 57 | ab η Pegasi ——— | 09 45 50 | 234 07 | 09 46 40 |
| | 8 00 | ——— rep. | 09 45 50 | 234 02 | 09 46 33 |
| | 04½ | à Markab iterùm ——— | 10 13 55 | 245 01 | 10 14 03 |
| | 06 | ——— rep. | 10 13 50 | 244 99 | 10 14 00 |
| | 11 | Markab Pegasi ab η ejusdem ——— | 15 48 50 | 378 97 | 15 49 18 |
| | | *Cauda tangebat Scheat à læva, fixasq; in pede Boreo Andromedæ utroq; limbo; desiit medio inter has & η Persei, curvatâ paululùm cavitate dextram respiciente.* | | | |
| ♃ 30 | 7 54 | Cometæ Caput à Markab Pegasi ——— | 08 52 40 | 212 39 | 08 52 24 |
| | 56 | ——— rep. | 08 52 20 | 212 22 | 08 52 00 |
| | 8 02⅓ | à Capite Andromedæ ——— | 19 56 05 | 477 63 | 19 56 36 |
| | 05 | ——— rep. | 19 55 25 | 477 42 | 19 56 04 |
| | 10 | Markab Pegasi à Capite Andromedæ ——— | 20 11 15 | 483 72 | 20 11 55 |
| | | *Australis duarum in pede Boreo Andromedæ erat in media Coma, cujus directio erat versus γ vel Humerum Persei; medio desiit inter pedem & Humerum dictum. Scheat erat ad dextram Caudæ marginem.* | | | |
| 1681. ☽ Jan. 3 | 7 40½ | Cometæ Caput à secunda Arietis ——— | 31 20 15 | 750 51 | 31 21 06 |
| | | *Cauda transiit inter Boreales fixas in Cingulo Andromedæ μ & ν, desiit antequàm pertigit ad lucidum latus Persei, 35 circitèr gradus longa, per Globum.* | | | |
| ☿ 5 | 5 39¾ | Caput Cometæ à lucida Arietis ——— | 28 15 10 | 676 59 | 28 15 48 |
| | 49 | ab extrema Alæ Pegasi —— | 14 11 40 | 339 93 | 14 11 37 |
| | 53 | ——— rep. | 14 12 10 | 340 09 | 14 12 01 |
| | 6 04½ | à lucida Arietis iterùm — | 28 12 10 | 675 47 | 28 13 00 |
| | 07⅓ | ——— rep. | 28 12 05 | 675 43 | 28 12 54 |
| | 15 | Lucida Arietis ab extrema Alæ Pegasi — | 28 02 50 | 671 81 | 28 03 51 |
| | | *Andromedæ π lævam, μ dextram Caudæ marginem tangebat; desiit juxta ν, τ, certè vix attigerit ad Alamech: longa 25 grad. per Globum.* | | | |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | Cometæ à Fixis Distantiæ Observatæ | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☉ Jan. 9 | 6 38 | Cometæ Caput à lucida Arietis ——— | 19 50 05 | 475 23 | 19 50 35 |
| | 41 | ——— rep. | 19 49 40 | 475 12 | 19 50 19 |
| | 48½ | ab extrema Alæ Pegasi — | 17 38 25 | 422 86 | 17 39 13 |
| | 51 | ——— rep. | 17 38 15 | 422 79 | 17 39 03 |
| | 58 | à lucida Arietis iterùm — | 19 48 35 | 474 75 | 19 49 21 |
| | 7 00 | ——— rep. | 19 48 05 | 474 52 | 19 48 47 |
| | | *Cauda tangebat Mirach limbo Boreo, desinebat juxta υ, τ Andromedæ.* | | | |
| ☽ 10 | 5 44 | Cometæ Caput à lucida Arietis ——— | 18 14 05 | 436 88 | 18 14 21 |
| | 48 | ——— rep. | 18 14 25 | 436 94 | 18 14 30 |
| | 54⅓ | ab Extrema Alæ Pegasi — | 18 47 45 | 450 41 | 18 48 15 |
| | 57 | ——— rep. | 18 47 55 | 450 47 | 18 48 24 |
| | 6 01 | à lucida Arietis ——— | 18 13 25 | 436 54 | 18 13 30 |
| | 04⅓ | ——— rep. | 18 13 15 | 436 46 | 18 13 18 |
| | | *Et pro Parallaxi ejus investiganda.* | | | |
| | 12 | Cometæ Caput à lucid. in Collo Androm. ♂ | 03 06 45 | 074 78 | 03 07 25 |
| | 16⅙ | ——— rep. | 03 07 10 | 074 98 | 03 07 55 |
| | 8 45⅓ | ——— iterum. | 03 18 05 | 079 37 | 03 18 55 |
| | 54 | ——— deniq; | 03 18 05 | 079 37 | 03 18 55 |
| | | *Cauda extensa usq; ad Alamech infra ipsam & Mirach transiit, versus Persei κ, spissior juxta Caput, rarissima versus extremitatem, & incurvata paululùm judicante Fabro.* | | | |
| ♃ 13 | 6 46 | Cometæ Caput à lucida Arietis ——— | 14 08 40 | 338 74 | 14 08 39 |
| | 53⅓ | ab Extrema Alæ Pegasi — | 22 28 05 | 538 25 | 22 28 55 |
| | 56 | ——— rep. | 22 28 25 | 538 40 | 22 29 17 |
| | 7 07½ | à lucida Arietis iterùm — | 14 07 40 | 338 35 | 14 07 40 |
| | | *Cauda valdè debilis satis tamen lata fuit; ejus medium medio transiit inter Borealem in basi Trianguli & Mirach Andromedæ, medio ferè desiit inter Alamech & Algol.* | | | |
| ☉ 16 | 6 30⅓ | Caput Cometæ à lucida Arietis ——— | 11 24 55 | 273 30 | 11 24 41 |
| | | *Nihil ampliùs tùnc temporis propter nubes licuit observare.* | | | |
| | | *Deinde Cometæ locus nòn potuit observari proper crescentem Lunæ lucem usque ad tertiam post plenilunium noctem; tunc autem.* | | | |
| ♂ 25 | 7 19½ | Cometæ Caput à Superiore Cornu Tauri — | 39 40 15 | 950 46 | 39 41 20 |
| | 29 | à lucida Mandibulæ Ceti | 30 34 25 | 732 00 | 30 34 45 |
| | 40½ | à lucida Arietis ——— | 10 07 10 | 242 60 | 10 08 01 |
| | 48 | à Superiore Cornu Tauri — | 39 39 35 | 950 20 | 39 40 40 |
| | 52 | Lucida Arietis à Superiore Cornu Tauri — | 44 42 20 | 1071 10 | 44 43 37 |
| | | *Cauda fuit valdè tenuis & luce debilis vix plus 6 aut 7 gradibus longa.* | | | |
| ☿ 26 | 6 35 | Cometæ Caput à Cornu Tauri Superiore — | 38 55 35 | 932 78 | 38 57 00 |
| ☉ 30 | 7 56 | Cometæ Caput à Cornu Tauri Superiore | 35 54 40 | 859 94 | 35 54 46 |
| | 8 09 | à lucido latere Persei ——— | 18 43 00 | 448 53 | 18 43 32 |
| | 16 | à Cornu Tauri iterùm ——— | 35 53 05 | 859 37 | 35 53 21 |
| | | Cornu Tauri superius à lucida lateris Persei | 31 22 20 | 751 01 | 31 22 21 |
| ☿ Feb. 2 | 6 10 | Cometæ Caput à Cornu Boreo Tauri ——— | 33 59 10 | 813 90 | 33 59 37 |
| | 20½ | à lucido latere Persei ——— | 18 03 05 | 432 63 | 18 03 44 |
| | 28½ | à Cornu Tauri iterùm ——— | 33 57 10 | 813 20 | 33 57 52 |
| | | *Valdè difficilis erat observatio propter capitis tenuitatem. Primam distantiam à Cornu Tauri justo potius majorem, alterum minorem; à lucido latere Persei justam existimo. Hora 6 20′, pone distantiam à Cornu Tauri Boreo* | | | 33 58 00 |
| | | *Cauda vix visibilis erat.* | | | |

| ANNO CHRISTI MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | COMETÆ à FIXIS DISTANTIÆ OBSERVATÆ. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ Feb. 5 | 6 44 | Cometæ Caput à Cornu Boreo Tauri —— | 32 11 00 | 770 24 | 32 10 27 |
| | 50 | —————— rep. | 32 10 40 | 770 12 | 32 10 09 |
| | 7 10 | ab Alamech Andromedæ — | 14 01 00 | 335 77 | 14 01 13 |
| | 16 | Cornu Tauri Boreum ab Alamech ——— | 42 44 05 | 1023 61 | 42 44 40 |

Fixarum loca quibus in Cometæ locis perquirendis uſus ſum è propriis Obſervationibus rectificata ad Annum ingruentem, 1681.

| Fixarum Nomina. | Longitudines s. ° ′ ″ | Latitudines. ° ′ ″ | |
|---|---|---|---|
| Lucida Vulturis — | ♑27 15 30 | 29 19 05 | B |
| Anc. Alæ Auſtr. Cyg. | ♒23 15 40 | 49 26 30 | |
| Os Pegaſi —— ε | 27 25 48 | 22 07 30 | |
| Markab ——— α | ♓19 01 45 | 19 24 50 | |
| Scheat ——— β | 24 55 00 | 31 08 30 | |
| Genu ——— η | 21 17 00 | 35 06 35 | |
| Extrema Alæ — γ | ♈04 41 00 | 12 35 20 | |
| Androm. Caput – α | 09 51 08 | 25 41 20 | |
| ——————— δ | 17 20 40 | 24 21 20 | |
| ——————— π | 18 12 30 | 27 09 05 | |
| Alamech Pes lucid. γ | ♉09 46 35 | 27 45 40 | |
| Arietis lucida — α | 03 11 06 | 09 57 12 | |
| Secunda ——— β | ♈29 30 40 | 08 28 50 | |
| Trianguli ——— δ | ♉09 03 35 | 19 20 00 | |
| ——————— γ | 09 03 25 | 18 54 40 | |
| ——————— ζ | 08 22 00 | 17 32 05 | B |
| Ceti Mandibula – α | 09 51 30 | 12 37 45 | A |
| Meduſæ Cap. Perſ. β | 21 43 45 | 22 22 30 | B |
| Lucid. Plejad. ♉¹, η | 25 32 30 | 04 00 05 | |
| Lucid Latus Perſei, α | 27 37 50 | 30 04 45 | |
| Tauri Cornu Bor. β | ♊18 10 05 | 05 20 50 | |

Cometæ loca ab Obſervationibus præcedentibus eruta.

| Anni | Menſes | Dies | Tempus Appar. H. M. | Longitudines. s. ° ′ ″ | Latitudines. ° ′ ″ |
|---|---|---|---|---|---|
| 1680 | Dec. | 12 | 04 46 | ♑06 33 | 08 26 |
| | | 21 | 06 32½ | ♒05 07 38 | 21 45 30 |
| | | 24 | 06 12 | 18 49 09 | 25 23 24 |
| | | 26 | 05 14 | 28 24 06 | 27 00 57 |
| | | 29 | 07 55 | ♓13 11 45 | 28 10 04 |
| | | 30 | 08 02 | 17 37 05 | 28 11 12 |
| 1681 | Jan. | 03 | 07 40 | | |
| | | 05 | 05 51 | ♈08 49 10 | 26 15 26 |
| | | 09 | 06 49 | 18 43 18 | 24 12 42 |
| | | 10 | 05 54 | 20 40 57 | 23 44 00 |
| | | 13 | 06 56 | 25 59 34 | 22 17 36 |
| | | 25 | 07 44 | ♉09 35 48 | 17 56 54 |
| | | 30 | 08 07 | 13 19 36 | 16 40 57 |
| | Feb. | 02 | 06 20 | 15 13 48 | 16 02 02 |
| | | 05 | 06 50 | 16 59 52 | 15 27 23 |

# *OBSERVATIONES COMETÆ* ANNI MDCLXXXII.

♂ Aug. 15 — *Vesperi & proximo mane, Cometes à vicinis visus, die sequente, vesperi ab Adjutore meo, quem tamen propter aerem nubibus fædum observare non potui ante 19; nec tùnc, Sextante, quoniam inter ipsum & Cometam ædium pars fuit interposita; Caput autem tubo pedum 16 consideratum exile apparuit; sed spisso inde emanante Capillitio, sive Cauda longa 5 gr. circitèr, divaricata & valdè tenuis circa extremitatem; hor. 9, directio ejus versus f Ursæ Majoris. Manè sequente sive 20, ☉is.*

| Anno Christi MDCLXXXII. Mense, Die. *Styl. Vet.* | *Temp. App.* H. M. | Cometæ à Fixis Distantiæ Observatæ. | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochlea Revolutiones & Circuli partes Respondentes* Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♄ 19 *vel* ☉ 20 *mane.* | 15 19 | Caput ab Austr. præc. in □° Ursæ Major. β | 19 27 20 | ::466 02 | 19 27 25 |
| | 24 | ——— accur. rep. | 19 25 20 | 465 22 | 19 25 25 |
| | 26 | ——— iter. | 19 25 30 | 465 27 | 19 25 33 |
| | 45 | ——— rursus | 19 26 40 | 465 70 | 19 26 38 |
| | 16 13 | ——— :: | 19 26 10 | 465 52 | 19 26 10 |
| | 15 | ——— denuo | 19 26 40 | 465 72 | 19 26 41 |
| | 24½ | à Polluce ——— | 33 53 45 | 811 46 | 33 53 31 |
| | 28 | ——— rep. | 33 54 25 | 811 78 | 33 54 20 |
| | 32 | ——— | 33 55 35 | 812 18 | 33 55 20 |
| | 35 | ——— | 33 56 10 | 812 41 | 33 55 54 |
| | 37 | à Castore ——— | 34 28 20 | 825 23 | 34 27 58 |
| | 40½ | ——— rep. | 34 28 55 | 825 53 | 34 28 44 |

*Caudæ longitudo, quanta heri vesperi.*
*Distantiam Capitis à Castore vel Polluce, nòn licuit ante dimetiri propter nubes, quibus ab initio continuo fuimus turbati.*

| Mense, Die. | H. M. | Distantiæ Observatæ. | ° ′ ″ | Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☉ 20 | 9 *circ.* | Diameter Capillitij axi Caudæ per nucleum normalis, tubo longiore capta erat. *Cujus distantiæ ipse nucleus vix* $\frac{1}{10}$ *æquabat.* | | 400 — | ::02 00 |
| *vel* ☽ 21 *mane.* | 15 00½ | Cometa à Castore ——— | 39 59 00 | 957 42 | 39 58 46 |
| | 06¼ | ——— rep. | 40 00 30 | 958 02 | 40 00 18 |
| | 30 | ——— iter. | 40 07 10 | 960 68 | 40 06 57 |
| | 38 | ab Australi sequent. in □° Ursæ Majoris γ | 20 54 40 | 500 88 | 20 55 09 |
| | 44 | ——— rep. | 20 55 00 | 500 92 | 20 55 09 |

*Caudæ summitas in æquali altitudine erat cum λ Ursæ, è qua vergebat Boream versus quantum ipsa distat à proxima, μ.*

| Mense, Die. | H. M. | Distantiæ Observatæ. | ° ′ ″ | Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ 21 | 8 05 | Cometa ab Arcturo ——— | 43 58 20 | 1052 94 | 43 58 09 |
| | 07 | ——— rep. | 43 58 00 | 1052 78 | 43 57 45 |
| | 14 | à Boreali in Pede posteriore Ursæ Majoris ν | 02 19 50 | 55 88 | 02 20 00 |
| | 20 | ab Aust. præc. in □°, Ur. Maj β | 22 09 50 | 530 62 | 22 09 45 |
| | 21½ | ——— rep. | 22 09 50 | 530 60 | 22 09 42 |
| | 24½ | ab Arcturo ——— | 43 53 20 | 1050 94 | 43 53 09 |
| | 27 | ——— rep. | 43 52 50 | 1050 69 | 43 52 32 |
| | 30½ | ——— iter. | 43 51 50 | 1050 38 | 43 51 45 |
| | 39 | Austr. præc. in □° Ursæ Major. β ab Arcturo | 51 33 25 | 1234 57 | 51 33 20 |
| | 41½ | ——— rep. | 51 33 10 | 1234 48 | 51 33 06 |
| | 44½ | Borea præc. in □° Ursæ, γ, ab Arcturo ——— | 53 49 00 | 1288 57 | 53 48 30 |
| | 47½ | ——— rep. | 53 49 00 | 1288 59 | 53 48 33 |
| | 50½ | Arcturus ab Australi. seq. in □° Ursæ, γ | 43 49 00 | 1049 22 | 43 48 51 |
| | 54½ | ——— rep. | 43 49 00 | 1049 22 | 43 48 51 |
| | 9 44 | Caudæ margo inferior videbatur ad ω Ursæ tendere, ejus longitudo ab Adjutore Radio capta 10 gr. latitudo ejus erat quanta Semidiameter. | | | |

| ANNO CHRISTI MDCLXXXII. Mense, Die. Styl. Vet. | Temp. App. M. H. | COMETÆ à FIXIS DISTANTIÆ OBSERVATÆ. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Aug. 21 | 16 08 | Castor ab Ursæ Majoris ——— β | 43 02 10 | 1030 50 | 43 01 57 |
| | 12 | ——— γ | 50 11.35 | 1201 87 | 50 11 22 |
| | 19 | Cometæ Caput à Castore ——— | 46 23 35 | 1110 88 | 46 23 22 |
| | | *Ursæ γ nunc intra tubi capacitatem apparuit cum Capite, Lunæ Semidiametrum circitèr ab eo distans.* | | | |
| ♂ 22 | 7 45½ | Cometæ ab Arcturo ——— | 38 08 10 | 913 26 | 38 08 09 |
| | 49½ | ——— rep. | 38 07 05 | 912 85 | 38 07 07 |
| | 53⅓ | Ursæ Majoris ——— β | 25 39 20 | 614 23 | 25 39 24 |
| | 56 | ——— rep. | 35 39 35 | 614 32 | 25 39 37 |
| | 59¾ | Arcturo ——— | 38 04 30 | 911 81 | 38 04 32 |
| | 8 02½ | ——— rep. | 38 03 50 | 911 53 | 38 03 50 |
| | 06 | Inter fixas ——— | 51 33 20 | 1234 64 | 51 33 20 |
| | | *Cauda longa 10 gr. mox à Capite ad dextram flexa videbatur ut in figura.* | | | |
| ♂ 29 | 8 09 | Cometæ Caput à Yed Ophiuchi ——— | 42 57 25 | 1028 91 | 42 57 42 |
| | 20 | ——— lucida Coronæ | 33 09 50 | 794 10 | 33 19 07 |
| | | *Caput per Telescopium pedum 27 haùd majus apparuit quam per tubum supra Sextantem. Cauda brevis, aliquantulùm deflectens ad sinistram ab Arcturo, judicio Ministri, meo potiùs ad ipsum præcise tendebat. Margo ejus, sinistra apparenter, per utrumq; tubum, melius definita apparuit quàm dextra; fixa simul intra tubi capacitatem apparuit, dimidium gradus circitèr in antecedentia capitis ab eo distans.* | | | |
| ☿ 30 | 7 35¼ | Cometæ Caput à Yed Ophiuchi ——— | 40 17 15 | 964 82 | 40 27 21 |
| | 38 | ——— rep. | 40 16 55 | 964 58 | 40 16 45 |
| | 44 | ——— lucidâ Coronæ | 32 44 05 | 783 71 | 32 44 09 |
| | 46⅓ | ——— rep. | 32 43 55 | 783 66 | 32 44 02 |
| | 50 | ——— Yed iterùm | 40 15 15 | 963 95 | 40 15 09 |
| | 51¼ | ——— rep. | 40 15 05 | 963 96 | 40 15 11 |
| | 55 | Lucida Coronæ à fixâ sequente Yed Ophiuchi ——— } ε | 33 08 25 | 793 26 | 33 08 02 |
| | 8 02⅓ | lucidâ Aquilæ ——— | 62 51 00 | | |
| | 05 | ——— rep. | 62 51 05 | | |
| | | *Cauda prætenuis vix gradus duos longa extendi videbatur versus ζ Bootis, cujus α & ε in recta fuere cum Capite. Lunæ splendor obstabat, secus forsan Cauda porrectior apparuisset.* | | | |
| ♃ 31 | 8 21½ | Cometæ Caput à Yed Ophiuchi ——— | 37 48 40 | 905 45 | 37 48 37 |
| | | *Capta hæc intercapedo per nubes densas transcurrentes, quibus obstantibus nec ipsam iterare nec aliam licuit dimetiri. Fixula juxta per tubum visa, in æquali fere altitudine cum Capite, vix Lunæ Semidiametrum ab eo distans, & alia in ipso axe Caudæ duplo plus à Capite remota.* | | | |
| ♀ Sept. 1 | 7 21 | Cometæ Caput à Yed Ophiuchi ——— | 35 54 20 | 859 61 | 35 53 57 |
| | 25 | ——— rep. | 35 53 50 | 859 46 | 25 53 35 |
| | 31¼ | lucidâ Coronæ ——— | 32 36 20 | 780 61 | 32 36 22 |
| | 36⅔ | ——— rep. | 32 36 10 | 780 57 | 32 36 16 |
| | 43 | Yed Ophiuchi ——— iter. | 35 52 00 | 858 66 | 35 51 35 |
| | 45 | ——— rep | 35 52 00 | 858 63 | 35 51 30 |
| | 49¼ | Yed Ophiuchi à lucidâ Coronæ ——— bis. | 31 52 50 | 763 07 | 31 52 32 |
| | 52 | ——— rep. | 31 52 50 | 763 07 | 31 52 32 |
| | 57½ | Quæ sequitur Yed ε, à lucida Coronæ ——— *Cauda vix ulla nudis oculis videri potuit.* | 33 08 20 | 793 26 | 33 08 02 |
| ☽ 4 | 7 12½ | Cometæ Caput à Yed Ophiuchi ——— | 31 27 25 | 753 16 | 31 27 44 |
| | 14⅓ | ——— rep. | 31 27 30 | 753 09 | 31 27 33 |

| ANNO CHRISTI MDCLXXXII. Mense, Die. Styl. Vet. | Temp. App. H. M. | COMETÆ à FIXIS DISTANTIÆ OBSERVATÆ. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Sept. 4 | 7 21 | Cometæ Caput à lucidâ Coronæ —— | 33 34 10 | 803 69 | 33 34 06 |
| | 23 | —— rep. | 33 34 05 | 803 65 | 33 34 00 |
| | 26⅓ | dictâ Ophiuchi —— | 31 26 20 | 752 70 | 31 26 38 |
| | 28⅓ | —— rep. | 31 26 15 | 752 64 | 31 26 25 |

*Nucleus, limbo capillitij vicinior quam antea; duplo fere, Caudam propter crepusculi claritudinem vix videre licuit nudis oculis; sed tubo pedum 27, distinctè conspecta est ad Horizontem angulo circitèr semirecto inclinata: melius à sinistra, vel in antecedentia quam à dextra definita.*

| | | | | | |
|---|---|---|---|---|---|
| ♂ 5 | 7 23¼ | Cometa à Yed —— | 30 23 30 | 727 71 | 30 23 53 |
| | 26 | —— rep. | 30 23 30 | 727 72 | 30 23 54 |
| | 32 | Bootis η, quæ præced. Arcturum | 20 01 25 | 479 51 | 20 01 20 |
| | 33½ | —— rep. | 20 01 15 | 479 45 | 20 01 10 |

*Capitis lumen valde erat obtusum. Cauda vix ulla propter crepusculi claritudinem conspecta, ultimæ observationi nubes densæ succedentes, primam iterari nòn permisere.*

| | | | | | |
|---|---|---|---|---|---|
| ♀ 8 | 7 07½ | Cometa ab Arcturo —— | 23 26 05 | 561 00 | 23 26 02 |
| | 09½ | —— rep. | 23 26 00 | 560 99 | 23 26 00 |
| | 15¼ | à Yed Ophiuchi —— | 28 12 05 | 675 22 | 28 12 22 |
| | 17⅙ | —— rep. | 28 11 45 | 675 10 | 28 12 05 |
| | 22¼ | ab Arcturo —— | 23 25 30 | 560 79 | 23 25 30 |
| | 25 | —— rep. | 23 25 25 | 560 73 | 23 25 21 |
| | 34 | Lucida Coronæ ab η Bootis —— | 24 26 15 | 585 18 | 24 26 35 |
| | 35⅙ | —— rep. | 24 26 10 | 585 15 | 24 26 30 |
| ♄ 9 | 7 15½ | Cometa ab Arcturo —— | 24 16 25 | 581 16 | 24 16 31 |
| | 18 | —— rep. | 24 16 05 | 581 04 | 24 16 13 |
| | 28 | à Yed Ophiuchi —— | 27 40 25 | 662 69 | 27 41 00 |
| | 29⅙ | —— rep. | 27 40 15 | 662 60 | 27 40 45 |
| | 35½ | ab Arcturo —— | 24 14 05 | 580 27 | 24 14 18 |
| | 38¼ | —— rep. | 24 13 25 | 579 94 | 24 13 28 |

☉ 10 — *Visus est denuò per nubium hiatus a D°* Halleio; *sed ad fixas conferri nòn potuit: posteà nunquàm vel à me vèl ab alio quopiam quod audio conspectus, propter Solis viciniam & indies crescentem declinationem Australem.*

## *OBSERVATIONES COMETÆ.*
## ANNI MDCLXXXIII.

♀ Julij 13 — *Hàc primum nocte Cometam vidi, quem amici quidam se vidisse retulerunt, nocte quæ sequebatur decimum diem; Caput exile vix majus apparuit fixis lucis quartæ, sed pallidius emicuit Cauda rara valde, sursum tendens 3 vel 4 gr. longa, adeo tenuis & diffusa ut intenta acie vix distincte videbatur: melius obliquo visu conspecta.*

| | | | | | |
|---|---|---|---|---|---|
| | 12 34 | Caput à lucido latere Persei —— | 39 11 05 | 938 34 | 39 10 55 |
| | 37 | —— rep. | 39 10 40 | 938 27 | 39 10 45 |
| | 44 | Borea præcedentium in ▯° Ursæ Majoris, à lucido latere Persei —— | 56 57 10 | 1364 14 | 56 57 25 |
| | 47 | —— rep. | 56 57 05 | 1364 13 | 56 57 24 |
| | 55 | Caput Cometæ à Borea præcedentium in ▯° Ursæ Majoris, α —— | 29 02 15 | 695 22 | 29 02 27 |

| ANNO CHRISTI MDCLXXXIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | COMETÆ à FIXIS DISTANTIÆ OBSERVATÆ. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ♀ Julij 13 | 12 58 | Caput Cometæ à Boreâ præced. &c. —— rep. | 29 02 35 | 695 39 | 29 02 52 |
| | 13 07 | à latere Persei —— rep. | 39 10 20 | 938 00 | 39 10 05 |
| | 09 | —— iter. | 39 10 20 | 938 03 | 39 10 09 |
| | | *Caput Telescopio pedum 7 confusius quam breviori trium pedum apparuit, confusius adhùc Telescopiis pedum 16 & 26; ejus diameter vix major 20″, certe fila in Telescopiis supra Sextantem totum tegebant.* | | | |
| ☉ 15 | 11 03 | Cometæ Caput à lucido latere Persei —— | 37 55 40 | 908 07 | 37 55 10 |
| | 07 | —— rep. | 37 55 40 | 908 05 | 37 55 07 |
| | 13 | ab Ursæ Majoris —— α | 29 44 55 | 712 29 | 29 45 12 |
| | 17 | —— rep. | 29 44 15 | 711 95 | 29 44 20 |
| ♂ 17 | 10 09 | Cometa à lucido latere Persei —— | 36 38 10 | 877 21 | 36 37 58 |
| | 15 | —— rep. | 36 38 10 | 877 22 | 36 38 00 |
| | 20 | ab Ursæ Majoris —— α | 30 35 45 | 732 57 | 30 36 06 |
| | 23 | —— rep. | 30 35 45 | 732 59 | 30 36 09 |
| ☽ 23 | 13 29 | Cometa à lucido latere Persei —— | 32 32 25 | 778 91 | 32 32 07 |
| | 32 | —— rep. | 32 33 05 | 779 14 | 32 32 42 |
| | 36 | ab Ursæ Majoris —— α | 33 59 40 | 813 81 | 33 59 24 |
| | 38⅓ | —— rep. | 33 59 55 | 813 96 | 33 59 48 |
| ☿ 25 | 13 52½ | Cometa ab Ursæ Majoris —— α | 35 21 25 | 846 54 | 35 21 15 |
| | 58 | —— rep. | 35 21 50 | 846 64 | 35 21 30 |
| | 14 08 | à lucido latere Persei —— | 31 08 50 | 745 54 | 31 08 40 |
| | 14 | —— rep. | 31 08 30 | 745 44 | 31 08 25 |
| ♀ 27 | 10 06 | Cometa ab Ursæ Majoris —— α | 36 42 30 | 879 16 | 36 42 51 |
| ☽ 30 | 9 58 | Cometa ab Ursæ Majoris —— α | 39 15 30 | 940 17 | 39 15 32 |
| | 10 03 | —— rep. | 39 15 30 | 940 14 | 39 15 27 |
| | | *Distantiam à latere Persei propter vapores & Lunæ splendorem capere nòn potui, neq; hâc nocte nec præcedente.* | | | |
| ♂ 31 | 9 28 | Cometa à lucido latere Persei —— | 26 49 15 | 642 12 | 26 49 22 |
| | 31 | —— rep. | 26 49 25 | 642 17 | 26 49 30 |
| | 42 | ab Ursæ Majoris —— α | 40 11 15 | 962 38 | 40 11 13 |
| | 44½ | —— rep. | 40 11 15 | 962 38 | 40 11 13 |
| | | *Deinde post mediam noctem parallaxim investigandi gratiâ.* | | | |
| | 14 41 | Cometa à lucido latere Persei —— | 26 39 55 | 638 33 | 26 39 52 |
| | 47 | —— rep. | 26 39 30 | 638 19 | 26 39 32 |
| | 55 | ab Ursæ Majoris —— α | 40 24 50 | 967 59 | 40 24 16 |
| | 15 00½ | —— rep. | 40 25 00 | 967 63 | 40 24 22 |
| ♃ Aug. 2 | 14 46½ | Cometa ab Ursæ Majoris —— α | 42 28 15 | 1016 94 | 42 27 58 |
| | 49¾ | —— rep. | 42 28 00 | 1016 90 | 42 27 52 |
| | 56 | à latere Persei lucido —— | 25 01 30 | 599 03 | 25 01 18 |
| | 59 | —— rep. | 25 01 20 | 598 92 | 25 01 01 |
| ♄ 4 | 10 38 | Cometa ab Ursæ Majoris —— α | | | |
| | 41 | —— rep. | | | |
| | 48 | à latere lucido Persei —— | | | |
| | 50 | —— rep. | | | |
| | | *Cometa nùnc nudis oculis clare absente Luna conspectus vix major Fixis lucis quartæ apparuit absque Cauda.* | | | |

| ANNO CHRISTI MDCLXXXIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | COMETÆ à FIXIS DISTANTIÆ OBSERVATÆ. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☽ Aug. 6 | 10 00 | Cometa ab Ursæ Majoris ———— α | | | |
| | 03 | ———————— rep. | | | |
| | 10 | à lucido latere Persei —— | | | |
| | 13 | ———————— rep. | | | |
| ♃ 9 | 10 16 | Cometa ab Ursæ Majoris ———— α | 52 08 30 | 1248 61 | 52 08 33 |
| | 19 | ———————— rep. | 52 08 10 | 1248 46 | 52 08 10 |
| | 26 | à lucido latere Persei —— | 19 23 55 | 464 66 | 19 24 00 |
| | 29 | ———————— rep. | 19 24 35 | 464 94 | 19 24 44 |
| ☿ 15 | 13 50 | Cometa ab Algol Medusæ ———— | 15 32 30 | 372 24 | 15 32 27 |
| | 53 | ———————— rep. | 15 32 50 | 372 36 | 15 32 45 |
| | 14 02 | à lucida Arietis ———— | 29 42 20 | 710 96 | 29 41 51 |
| ♃ 16 | 15 06 | Cometa à lucida Arietis ———— | 27 04 15 | 648 04 | 27 04 16 |
| | 09 | ———————— rep. | 27 03 45 | 647 76 | 27 03 35 |
| | 27 | ab Algol Medusæ ——— | 15 24 40 | 368 85 | 15 24 00 |
| ♄ 18 | 15 35½ | Cometa ab Algol Medusæ ———— | 17 28 25 | 418 51 | 17 28 20 |
| | 39 | ———————— rep. | 17 28 50 | 418 70 | 17 28 48 |
| | 42 | à lucida Arietis ———— | 21 55 10 | 524 90 | 21 55 24 |
| | 44 | ———————— rep. | 21 55 20 | 524 98 | 21 55 36 |
| ☽ 20 | 14 12 | *Erat in eodem verticali cum media Cauda Arietis, tantundem ab ea distans quantum Caudæ prima à postrema abest, vel 1 ½ gr. circitèr, sed nebula superveniens distantiam metiri nòn permiserit.* | | | |
| ♀ 22 | 14 33 | Cometa à lucida Arietis ———— | 17 07 50 | 410 32 | 17 07 48 |
| | 37 | ———————— rep. | 17 07 40 | 410 25 | 17 07 37 |
| | 44 | à lucidâ Plejadum ——— | 17 14 20 | 413 04 | 17 14 38 |
| | 47½ | ———————— rep. | 17 14 30 | 413 16 | 17 14 55 |
| ♃ 23 | 15 42 | Cometa à lucida Arietis ———— | 18 37 10 | 445 96 | 18 37 06 |
| | 45 | ———————— rep. | 18 37 00 | 445 87 | 18 36 52 |
| | 51 | à lucidâ Plejadum ——— | 22 12 10 | 531 68 | 22 12 25 |
| | 54 | ———————— rep. | 22 12 40 | 531 82 | 22 12 46 |
| | 16 00 | Inter fixas ———————— | 22 57 00 | 549 31 | 22 56 43 |

*Vidit deinde Cometam & per Telescopia observavit* D. Halleius *die* 26to. *Quem postea, propter Lunæ plenæ splendorem, nec ego, nec ille reperire potuimus.*

*Loca Cometæ Anni 1682, ab Observationibus præcedentibus derivata.*

| | Menses | Dies | H. M. | Cometæ Longitudines. ° ′ ″ | Latitudines Septentr. ° ′ ″ | | Menses | Dies | H. M. | Cometæ Longitudines. ° ′ ″ | Latitudines Septentr. ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1682 | Aug. | 19 | 16 39 | ♌ 18 14 40 | 25 49 55 | 1682 | Sept. | 1 | 07 33 | ♎ 20 27 04 | 15 09 49 |
| | | 20 | 15 38 | 24 46 22 | 20 11 32 | | | 4 | 07 22 | 25 40 58 | 12 19 40 |
| | | 21 | 08 21 | 29 38 02 | 26 17 37 | | | 5 | 07 32 | 26 59 24 | 11 33 51 |
| | | 22 | 08 08 | ♍ 06 30 03 | 26 07 12 | | | 8 | 07 16 | 29 58 45 | 09 26 43 |
| | | 29 | 08 20 | ♎ 12 37 49 | 18 34 05 | | | 9 | 07 26 | ♏ 00 44 04 | 08 54 36 |

## *Loca Cometæ Anni 1683, ab Observationibus deducta.*

| Menses | Dies | Temp. Ap. H M. | Cometæ Longitudines. s. ° ' '' | Latitudines Septentr. ° ' '' | |
|---|---|---|---|---|---|
| 1683 Julij | 13 | 12 50 | ♋13 06 42 | 29 28 20 | B |
| | 15 | 11 10 | 11 39 43 | 29 34 50 | |
| | 17 | 10 15 | 10 08 40 | 29 34 00 | |
| | 23 | 13 35 | 05 11 30 | 28 50 28 | |
| | 25 | 14 00 | 03 27 00 | 28 23 40 | |
| | 31 | 09 37 | ♊27 54 24 | 26 22 25 | |
| | 31 | 14 50 | 27 41 08 | 26 14 50 | |
| Aug. | 2 | 14 52 | 25 28 46 | 25 17 28 | |
| | 4 | 10 45 | 23 16 55 | 24 12 19 | |
| 1683 Aug. | 6 | 10 06 | ♊20 40 32 | 22 49 05 | B |
| | 9 | 10 23 | 16 05 55 | 20 06 10 | |
| | 15 | 14 00 | 03 26 18 | 11 32 01 | |
| | 16 | 15 09 | 00 41 55 | 09 34 13 | |
| | 18 | 15 44 | ♉24 49 05 | 05 09 11 | B |
| | 22 | 14 45 | 11 07 12 | 05 16 50 | A |
| | 23 | 15 53 | 07 01 17 | 08 16 41 | A |
| | 26 | 16 04 | ♈24 44 00 | 16 38 20 | A |

*Fixarum loca Mense Septembris Anni 1682, è quibus Cometæ tunc observati, loca deprompta sunt.*

| Fixarum Nomina. | Cometæ Longitudines s. ° ' '' | Latitudines Boreales. ° ' '' |
|---|---|---|
| *Geminorum Castor* — | ♋15 48 50 | 10 04 08 |
| *Ursæ Major. in* □° β | ♌14 53 33 | 45 07 06 |
| ——— γ | 25 59 14 | 47 06 06 |
| *Arcturus, Bootis* — α | ♎19 47 55 | 30 56 59 |
| ——— η | 14 53 00 | 28 07 10 |
| *Corona lucida* — α | ♍07 48 20 | 44 20 57 |
| *Serpentarij Ted* — δ | 27 52 00 | 17 16 12 |
| *Aquilæ lucida* — α | ♑27 17 00 | 29 19 10 |

*Fixarum loca Mense Augusti, Anni 1683, quarum ope loca Cometæ tunc observati, ab observationibus deducta fuere.*

| Fixarum Nomina. | Cometæ Longitudines. s. ° ' '' | Latitudines Boreales. ° ' '' | |
|---|---|---|---|
| *Lucida Arietis* — α | ♉ 3 14 05 | 9 57 12 | |
| *Cap. Medusæ Pers.* β | 21 45 53 | 22 22 27 | B |
| *Lucid. Plejad.* ♉¹ η | 25 34 37 | 4 00 06 | B |
| *Lucid. latus Pers.* α | 27 39 57 | 30 04 10 | |
| *Castoris Gemin.* — α | ♋15 49 30 | 10 04 10 | |
| *Ursæ Majoris* — α | ♌10 43 32 | 49 40 45 | |

*Loca hæc Fixarum, etiamsi ab observationibus Sextante solummodo habitis deducta fuere, adeo tamen benè cum locis ope Muralis Arcus deinceps post Annos 10, determinatis conveniunt, ut ab ijs differentiæ meritò contemni possint.*

| | Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | SATURNI DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Saturn. in Tauri 26° Retrog. Meridionalis.* | ♂ Sept. 19 | 11 20 | *Saturnus* — ab Arietis prima — ♈ | | 675 76 | 28 13 45 |
| | | | à secunda Arietis — β | | 669 52 | 27 58 07 |
| | | | à clara in lino Boreo ♓ium n | | 810 85 | 33 52 09 |
| *Saturn. in Tauri 25° Retrog. Meridionalis.* | ☿ 27 | 10 00 | *Saturnus* — ab Arietis prima — ♈ | | 668 74 | 27 56 10 |
| | | 07 | à Piscium — o | | 760 44 | 31 46 03 |
| | | 18 | à Cornu Tauri Boreo — | | 582 26 | 24 19 18 |
| | | 29 | *Lucida Arietis* & Aldebaran — | | 850 93 | 35 32 18 |
| | | | — rep. | | 851 00 | 35 32 28 |
| | ♀ 29 | 12 02 | *Saturnus* — ab Arietis secunda — | | 618 53 | 25 50 10 |
| | | 35 | — rep. | | 618 51 | 25 50 07 |
| *Saturn. in 23° Tauri, 3 dies post Oppos. cum Sole.* | ☽ Nov. 6 | 9 47 | *Saturnus* — ab Arietis secunda — | | 599 30 | 25 01 58 |
| | | 10 14½ | — rep. | | 599 31 | 25 02 00 |
| | | 21 | ab Austrino Cornu Tauri — | | 674 26 | 28 10 00 |
| | | 36 | à Capella — | | 845 55 | 35 18 50 |
| | | | *N. B. Quod oppositio Solis & Saturni facta fuit die 3a circa mediam noctem sequent. Cœlum tamen per totum hebdoma continuo nubibus subductum Planetam propius oppositioni observari non permiserit.* | | | |
| | ☿ 8 | 10 20 | *Saturnus* — à clara in Lino boreo Piscium | | 732 05 | 30 34 42 |
| | ♄ 18 | 9 30 | *Saturnus* — à clara in Lino boreo Piscium | | 713 54 | 29 48 22 |
| *Sat. in Tauri 22° Retrogradus Merid.* | ♃ 23 | 11 05 | *Saturnus* — ab eadem clara in Lino Piscium | | 704 89 | 29 26 40 |
| | | 11 | ab Austrino Cornu Tauri — | | 706 35 | 29 30 21 |
| *Sat. in Tauri 21° Ret. Meridionalis.* | ♄ Dec. 2 | 9 29 | *Saturnus* — à clara in Lino boreo Piscium | | 690 68 | 28 51 09 |
| | | 39 | ab Austrino Cornu Tauri — | | 720 87 | 30 06 42 |
| | MDCLXXVII. | | | | | |
| *Sat. in Gem. 9° Merid. directus.* | ♃ Aug. 16 | 13 32 | *Saturnus* — à Nodo lini Piscium — | | 1072 98 | 44 48 24 |
| | | 46 | à pede superiore Aurigæ — | | 301 36 | 12 35 07 |
| *Saturn. in 10° Gemin. Merid. juxta stationem primam.* | ☽ Sept. 17 | 11 28½ | *Saturnus* — à Nodo lini Piscium — | | 1085 23 | 45 19 01 |
| | | 38 | lucido latere Persei — | | 815 94 | 34 04 45 |
| *Sat. in Gem. 7° Retrograd. Meridionalis.* | ☿ Nov. 7 | 9 04 | *Saturnus* — à clara in Lino bor. Piscium n | | 1088 69 | 45 27 40 |
| | | 14 | à Capella — | | 639 75 | 26 43 22 |
| | | 24 | — rep. | | 639 77 | 26 43 25 |
| | ☿ 14 | 10 23 | *Saturnus* — à Lucida Arietis — | | 848 34 | 35 25 48 |
| | | 29½ | à Calce Castoris — μ | | 578 04 | 24 08 43 |
| | | 45 | à superiore pede Aurigæ — ι | | 324 14 | 13 32 09 |
| | | 52 | *Lucida* ♈tis α & Pes Aurigæ superior, — ι | | 918 24 | 38 20 39 |
| *Sat. in Gem. 7° Merid. Retrogradus.* | | 11 02 | *Calx Castoris* & Pes Aurigæ superior, — ι | | 519 71 | 21 42 16 |
| | | 11¼ | *Saturnus* — à Calce Castoris — | | 578 14 | 24 08 58 |
| *Sat. in Oppos. Solis in Gem. 7° Merid. Retrog.* | ☉ 18 | 13 25 | *Saturnus* — à Calce Castoris — | | 586 24 | 24 29 16 |
| | | | — rep. | | 586 16 | 24 29 04 |
| | | 42 | à pede superiore Aurigæ — | | 327 51 | 13 40 36 |
| | | 45 | — rep. | | 327 52 | 13 40 37 |
| | | 54 | à lucida Arietis — | | 840 66 | 35 06 34 |
| | | 55½ | — rep. | | 840 64 | 35 06 31 |

| Anno Christi MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | *SATURNI* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☽ Nov. 19 | 9 35 | *Saturnus* —— à lucida Arietis —— | | 839 06 | 35 02 33 | *Saturnus in Gemin. 6° Retrog. Merid.* |
| | | —— rep. | | 839 06 | 35 02 33 | |
| | 53 | à Pede superiore Aurigæ —— | | 328 20 | 13 42 19 | |
| ♂ Dec. 4 | 9 46 | *Saturnus* —— à lucida Arietis —— | | 812 15 | 33 55 24 | |
| ♀ 14 | 10 23 | *Saturnus* —— à lucida Arietis —— | | 795 84 | 33 14 30 | *Saturnus in 5° Gemin. Merid. Retrog.* |
| | 30 | à Pede superiore Aurigæ —— | | 348 81 | 14 33 54 | |
| MDCLXXVIII. | | | | | | |
| ♃ Apr. 11 | 8 14 | *Saturnus* —— ab Humero sequente Orionis | 21 37 40 | 517 93 | 21 37 52 | |
| | 17 | —— rep. | 21 37 30 | 517 84 | 21 37 39 | |
| | 28 | à Cornu Boreo ♉[1], Aurigæ β | 12 05 10 | 289 40 | 12 05 21 | *Saturnus in Gemin. 8° Meridionalis directus.* |
| | 30 | —— rep. | 12 04 50 | 289 38 | 12 05 18 | |
| | 37 | à sequente Humero Orionis | 21 38 20 | 518 27 | 21 38 39 | |
| | 40 | —— rep. | 21 38 25 | 518 31 | 21 38 45 | |
| | 45 | *Humerus Orionis seq.* à Cornu Tauri superiore | 22 16 40 | 533 31 | 22 16 30 | |
| ♄ Sept. 28 | 16 00 | *Saturnus* —— à lucida Arietis —— | 51 58 25 | 1244 60 | 51 58 32 | *Has, me tunc agroto, rogatu a me, cepit D. Halleius.* |
| | 08⅓ | à prima Arieties —— | 55 57 00 | 1339 96 | 55 57 00 | |
| | 14 | à lucida Plejadum —— | 29 06 15 | 696 85 | 29 06 33 | |
| | 18 | à Palilicio —— | | 460 42 | 19 13 20 | |
| | 25 | à Polluce —— | | 620 04 | 25 54 00 | *Saturnus in Gemin. 24° in prima statione Merid.* |
| | 31 | à Castore —— | | 584 41 | 24 23 40 | |
| | 38½ | à Procyone —— | 30 30 25 | 730 40 | 30 30 35 | |
| | 46⅓ | à Corde Leonis —— | 61 15 00 | 1467 35 | 61 15 24 | |
| ♀ Oct. 18 | 9 43 | *Saturnus* —— ab Aldebaran —— | 18 45 40 | 449 33 | 18 45 34 | *Saturnus in Gemin. 21° Retrog. Merid.* |
| | 46½ | ab Oculo Boreo Tauri —— | 19 41 40 | 471 78 | 19 41 54 | |
| ☽ Dec. 2 | 15 29 | *Saturnus* —— à Polluce —— | 29 17 50 | 701 55 | 29 18 20 | |
| | 32 | —— | 29 18 00 | 701 53 | 29 18 17 | *Saturnus in Gemin. 21° Retrog. Merid.* |
| | 38 | à Procyone —— | 33 39 15 | 805 68 | 33 39 10 | |
| | 42 | —— | 33 39 30 | 805 75 | 33 39 20 | |
| | 51 | ab Humero sequente Orionis | 15 06 40 | 361 90 | 15 06 36 | *Opposi. Solis.* |
| ♀ 6 | 9 03 | *Saturnus* —— à Palilicio —— | 15 28 30 | 370 68 | 15 28 34 | *Saturnus in Gemin. 20° Merid. Retrog.* |
| | 17 | à Polluce —— | 29 35 55 | 708 56 | 29 35 52 | |
| | 28 | à Capella —— | 24 25 20 | 584 86 | 24 25 48 | |
| MDCLXXIX. | | | | | | |
| ♀ Jan. 7 | 9 44½ | *Saturnus* —— à Polluce —— | 31 46 00 | 760 48 | 31 46 09 | *Saturnus in Stat. secunda Meridionalis.* |
| ♀ 10 | 5 50 | *Saturni Centrum* à 41ª Tauri, Micrometro —— | | 2100 = | 00 10 28 | |
| ♂ Feb. 11 | 6 58 | *Saturnus* —— à Polluce —— | 32 30 25 | 778 01 | 32 29 57 | *Saturnus in Gemin. 18° Meridionalis directus.* |
| | 7 03 | ab Humero sequente Orionis | 16 26 25 | 393 60 | 16 25 57 | |
| ♄ Mar. 29 | 8 31 | *Saturnus* —— ab Asello Austrino —— | 44 44 20 | 1071 84 | 44 45 30 | |
| ☉ Julij 27 *vel* ☽ 28 *mane.* | 15 02 | *Saturnus* —— à Calce Castoris —— | 02 58 40 | 71 26 | 02 58 36 | |
| | 05 | —— rep. | 02 58 40 | 71 24 | 02 58 33 | *Saturnus in Cancri 4° Meridionalis directus.* |
| | 08 | à Palilicio —— | 28 48 20 | 689 64 | 28 48 33 | |
| | 12 | —— rep. | 28 48 20 | 689 61 | 28 48 28 | |
| | 16 | à Capella —— | 28 33 55 | 683 82 | 28 33 57 | |
| | 18 | —— melius rep. | 28 34 00 | 683 88 | 28 34 06 | |

| | Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | SATURNI DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Sat. in Cancri 5° Merid. dir.* | ☉ Aug. 10 *vel* ☽ 11 *mane.* | 15 27 | *Saturnus* —— à Palilicio —— | 30 13 05 | 723 67 | 30 13 40 |
| | | 31 | —— rep. | 30 13 45 | 723 73 | 30 13 49 |
| | | 33 | —— iter. | 30 13 45 | 723 75 | 30 13 52 |
| | | 40⅓ | ab Humero sequente Aurigæ β | 24 15 25 | 580 81 | 24 15 36 |
| | | 49 | à Calce Castoris —— | 04 24 50 | 105 78 | 04 25 10 |
| *Sat. in Cancri 7° Merid. dir.* | ☉ 31 *vel* ☽ Sept. 1 *mane.* | 16 06 | *Saturnus* —— à Palilicio —— | 31 57 20 | 964 94 | 31 57 12 |
| | | 10 | ab Humero sequente Aurigæ β | 24 58 50 | 598 06 | 24 58 53 |
| *Sat. in Cancri 8° Merid. Retrog. juxta stat. primum.* | ☉ Oct. 19 *vel* ☽ 20 *mane.* | 14 20 | *Saturnus* —— à Palilicio —— | 33 15 30 | 796 10 | 33 15 07 |
| | | 22 | —— rep. | 33 15 30 | 796 07 | 33 15 03 |
| | | 25 | ab Oculo Boreo Tauri —— | 34 20 40 | 822 22 | 34 20 27 |
| | | 26½ | —— rep. | 34 20 50 | 822 26 | 34 20 33 |
| | | 35 | Humero Aurigæ sequente | 25 35 05 | 612 50 | 25 35 05 |
| | | 38 | —— rep. | 25 35 00 | 612 47 | 25 35 00 |
| *Sat. in Cancri 6°.* | ☽ Dec. 1 | 16 37 | *Saturnus* —— à Corde Leonis —— | 49 20 00 | 1181 36 | 49 20 01 |
| *Sat. in Cancri 6° Merid. Retrog.* | ♂ 2 | 10 14 | *Saturnus* —— à Palilicio —— | 30 59 15 | 741 81 | 30 59 20 |
| | | 17 | —— rep. | 30 59 15 | 741 80 | 30 59 18 |
| | | 22 | ab Humero Aurigæ sequente | 24 32 00 | 587 37 | 24 32 05 |
| | | 25 | —— rep. | 24 31 50 | 587 27 | 24 31 50 |
| | ♂ 9 | 8 24 | *Saturnus* —— à Palilicio —— | 30 26 20 | 728 77 | 30 26 33 |
| *Sat. in Cancri 5° Merid. Retrog. 6 dies ante Oppos. cum Sole.* | ☿ 10 | 9 54 | *Saturnus* —— à Palilicio —— | 30 21 00 | 726 71 | 30 21 22 |
| | | 56 | —— | 30 21 00 | 726 73 | 30 21 25 |
| | | 59 | ab Oculo Boreo Tauri —— | 31 24 25 | 751 91 | 31 24 42 |
| | | 10 02 | —— rep. | 31 24 25 | 751 92 | 31 24 43 |
| | | 05 | à Calce Castoris —— | 04 31 25 | 108 37 | 04 31 42 |
| | | 10 | —— rep. | 04 31 25 | 108 36 | 04 31 40 |
| | | 14 | à Polluce —— | 15 20 40 | 367 59 | 15 20 50 |
| | | 17 | —— rep. | 15 20 30 | 367 55 | 15 20 44 |
| | | 25 | ab Humero sequente Aurigæ β | 24 15 45 | 580 87 | 24 15 48 |
| | | | *Die 16 hujus mensis vesperi facta fuerit oppositio Solis & Saturni, attamen cum Cælum nubibus continuo subductum extiterit à 12° ad 18 m, nòn licuit Planetam iterùm observare ante 19m mane, captæ quando distantiæ.* | | | |
| *Sat. in Cancri 5° Merid. Retrog. 2 dies post Oppos. cum Sole.* | ♃ 18 *vel* ♀ 19 *mane.* | 15 54 | *Saturnus* —— à Corde Leonis —— | 50 42 52 | 1214 53 | 50 43 06 |
| | | 57 | —— rep. | 50 42 45 | 1214 50 | 50 43 02 |
| | | 16 05 | *Cor Leonis* — à sequente Humero Aurigæ | 62 00 40 | 1485 71 | 62 01 16 |
| | | 09 | *Saturnus* —— à sequente Humero Aurigæ | 23 59 40 | 574 48 | 23 59 48 |
| | | 12 | —— rep. | 23 59 40 | 574 49 | 23 59 50 |
| | | 19 | à Corde Leonis —— | 50 42 45 | 1214 49 | 50 43 00 |
| | | 25 | à Leonis —— o | 45 10 05 | 1081 87 | 45 10 34 |
| | | 30 | *Humer. seq. Aurigæ* à Leonis —— o | 58 51 05 | 1409 66 | 58 51 10 |
| | | 36 | *Cor Leonis* —— & seq. Humerus Aurigæ rep. | 62 00 35 | 1485 67 | 62 01 10 |
| | | 44 | *Saturnus* —— à Calce Castoris —— μ | 03 50 20 | 092 16 | 03 51 01 |
| | | 48 | —— rep. | 03 50 15 | 092 14 | 03 50 58 |
| | ♄ 20 | 9 16 | *Saturnus* —— à Palilicio —— | 29 32 45 | 707 29 | 29 32 40 |
| | | 19⅓ | —— | 29 32 50 | 707 33 | 29 32 45 |
| | | 22½ | ab Oculo Boreo Tauri — | 30 35 10 | 732 25 | 30 35 18 |
| | | 25 | —— rep. | 30 35 15 | 732 28 | 30 35 22 |
| | | 10 37 | à Polluce —— | 16 03 50 | 384 81 | 16 03 55 |

| ANNO CHRISTI MDCLXXIX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | SATURNI. DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♄ Dec. 20 | 10 39 | *Saturnus* —— à Polluce—— rep. | 16 03 55 | 384 84 | 16 04 00 | *Sat. in Cancri* ° *Merid. Retrogr. 4 dies poſt Oppoſitionem Solis.* |
| | 43 | à Calce Caſtoris —— | 03 42 00 | 088 64 | 03 42 12 | |
| | 49 | ab Humero ſequent. Aurigæ β | 23 56 25 | 573 15 | 23 56 27 | |
| | 54½ | *Pollux* —— ab Humero ſequent. Aurigæ | 26 59 25 | 646 10 | 26 59 24 | |
| MDCLXXX. | | | | | | |
| ♄ Jan. 3 | 6 37 | *Saturnus* —— à Palilicio —— | 28 28 05 | 681 55 | 28 28 1 | *Sat. in Cancri* 5°. |
| ☽ 26 | 9 37 | *Saturnus* —— à Calce Caſtoris —— | 01 11 40 | 028 69 | 01 11 52 | *Sat in Cancri* 2° *Merid. Retrogr.* |
| | 11 20 | à lucida in Juba Leonis—— | 53 44 45 | 1287 16 | 53 44 58 | |
| | 50 | à Corde Leonis —— | 53 23 45 | 1278 71 | 53 23 51 | |
| ♂ Feb. 17 | 6 53 | *Saturnus* —— à lucida Plejadum —— | 36 10 55 | 866 34 | 36 10 48 | *Sat. in Cancri* 1° *Merid. juxta Stat. ſecundam.* |
| | 56 | —— rep. | 36 10 45 | 866 37 | 36 10 52 | |
| | 7 08 | ab Oculo Tauri Boreo —— | 27 30 10 | 658 64 | 27 30 56 | |
| | 10 | —— rep. | 27 30 00 | 658 60 | 27 30 30 | |
| | 18 | à ſequente Humero Aurigæ | 22 50 50 | 546 92 | 22 50 42 | |
| | 21 | —— rep. | 22 50 55 | 546 97 | 22 50 50 | |
| ☿ 18 | 7 28 | *Saturnus* —— à lucida Plejadum —— | 36 10 00 | 866 09 | 36 10 10 | *Sat. in Cancri* 1° *juxta Stat.* |
| | 29 | —— rep. | 36 10 10 | 866 18 | 36 10 24 | |
| | 31 | —— iter. | 36 10 10 | 866 18 | 36 10 24 | |
| | 33 | ab Oculo Boreo Tauri —— | 27 29 35 | 658 42 | 27 30 18 | |
| | 36 | —— rep. | 27 29 40 | 658 44 | 27 30 21 | |
| ♀ 20 | 9 54 | *Saturnus* —— ab Aurigæ ſequente Humero | 22 50 35 | 546 77 | 22 50 20 | *Sat. Stat. in Cancri* 1° ½. |
| | 10 09 | à Corde Leonis —— | 53 58 15 | 1292 61 | 53 58 35 | |
| | 11 | —— rep. | 53 58 20 | 1292 64 | 53 58 40 | |
| ☽ Mar. 1 | 9 25 | *Saturnus* —— à Corde Leonis —— | 53 53 00 | 1290 45 | 53 53 12 | *Sat. in Cancri* 2°. |
| ♂ 23 | 8 47 | *Saturnus* —— à Corde Leonis —— | 53 03 10 | 1270 50 | 53 03 20 | *Sat. in Cancri* 2° *Merid. directus juxta Quadr. Heliocentr.* |
| | 51 | —— rep. | 53 03 10 | 1270 49 | 53 03 18 | |
| | 9 06 | ab Humero ſequente Aurigæ | 23 00 05 | 550 66 | 23 00 52 | |
| ☉ Apr. 25 | 9 20 | *Saturnus* —— à Corde Leonis —— | 50 23 25 | 1206 94 | 50 24 05 | *Sat. in Cancri* 5° *Merid. dir.* |
| | | —— rep. | 50 23 30 | 1206 94 | 50 24 05 | |
| ☿ Julij 22 *vel* ♃ 23 *mane.* | 15 09 | *Saturnus* —— à Palilicio —— | 40 42 45 | 975 14 | 40 43 13 | *Sat. in Cancri* 16° *Merid. dir.* |
| ♂ Aug. 18 | 13 47 | *Saturnus* —— à Palilicio —— | 43 44 45 | 1047 54 | 43 44 37 | *Sat. in Cancri* 19° *Merid. dir.* |
| | 50 | —— rep. | 43 45 00 | 1047 62 | 43 44 50 | |
| | 14 52 | à Calce Caſtoris —— | 18 02 40 | 432 20 | 18 02 40 | |
| | 15 01 | à Polluce —— | 06 55::45 | 166 11 | 06 56 27 | |
| ☉ Sept. 5 *vel* ☽ 6 *mane.* | 15 51 | *Saturnus* —— à Calce Caſtoris —— | 19 42 30 | 472 02 | 19 42 30 | *Sat. in Cancri* 20° ½ *Mer. dir.* |
| | 53 | —— rep. | 19 42 30 | 472 01 | 19 42 28 | |
| | 16 26 | à lucido Pede Geminorum —— | 17.08 55 | 409::82 | 17 06 33 | |
| | 29 | —— rep. | 17 09 00 | 409::82 | 17 06 33 | |
| | 36 | à Caſtore —— | 11 21 10 | 271 83 | 11 21 10 | |
| | 38 | —— rep. | 11 21 15 | 271 84 | 11 21 12 | |
| | 43 | *Pes Lucidus* γ, à Capite Caſtoris —— | 20 10 40 | 483 36 | 20 11 00 | |
| ♃ 16 | 15 21 | *Saturnus* —— à Pede lucido Geminorum —— | 17 53 50 | 428 75 | 17 53 58 | *Sat. in Cancri* 21° ½ *Merid. directus.* |
| | 24 | —— rep. | 17 53 50 | 428 75 | 17 53 58 | |
| | 30 | à Polluce —— | 07 21 35 | 176 09 | 07 21 28 | |

| | Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | SATURNI DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ☽ Oct. 11 | 16 31 | Saturnus —— à Calce Castoris —— | 21 36 45 | 517 55 | 21 36 55 |
| | vel ♂ 12 | 33 | —— rep. | 21 36 55 | 517 60 | 21 37 03 |
| | mane. | 37 | à Palilicio —— | 47 19 10 | 1133 50 | 47 20 05 |
| Sat. in Cancri 22½ Merid. directus. | | 39 | —— rep. | 47 19 10 | 1133 59 | 47 20 18 |
| | | 44 | Palilicium — à Polluce —— | 45 03 20 | 1079 25 | 45 04 01 |
| | | 47 | —— rep. | 45 03 25 | 1079 31 | 45 04 10 |
| | | 51½ | Saturnus —— à Polluce —— | 07 46 40 | 186 03 | 07 46 22 |
| | | 55 | —— rep. | 07 46 35 | 186 01 | 07 46 20 |
| | ☽ 25 | 17 11 | Saturnus —— à lucido Pede Geminorum bis | 19 03 15 | 456 65 | 19 03 52 |
| Sat. in Cancri 22° ad stat. primam. | vel ♂ 26 | 19 | à Polluce —— | 07 49 20 | 187 13 | 07 49 07 |
| | mane. | 21 | —— rep. | 07 49 15 | 187 11 | 07 49 05 |
| Sat. in Cancri 22°½ retrogr. Merid. | ☉ Nov. 7 vel ☽ 8 mane. | 14 36 | Saturnus —— à lucido Pede Geminorum – | 18 52 05 | 452 04 | 18 52 20 |
| | ☽ 22 | 17 35 | Saturnus —— à Regulo —— | 33 38 55 | 805 54 | 33 38 43 |
| Sat. in Cancri 22° Merid. Retrogradus. | vel ♂ 23 | 42 | à Castore —— | 11 48 35 | 282 86 | 11 48 46 |
| | mane. | 45 | —— rep. | 11 48 35 | 282 85 | 11 48 45 |
| Sat. in Cancri 22° Merid. Retrogradus. | ♂ Dec. 7 | 14 22 | Saturnus —— à Calce Castoris —— μ | 19 58 30 | 478 53 | 19 58 51 |
| | vel ♀ 8 | 25 | —— rep. | 19 58 30 | 478 54 | 19 58 53 |
| | mane. | 38 | à Castore —— | 11 21 15 | 271 81 | 11 21 07½ |
| | ☿ 10 | 15 16 | Saturnus —— à lucido Pede Geminorum — | 17 14 05 | 413 09 | 17 14 45 |
| | vel ♄ 11 | 18 | —— rep. | 17 14 00 | 413 07 | 17 14 42 |
| | mane. | 23 | à Castore —— | 11 15 20 | 269 38 | 11 15 02 |
| | | 25 | —— rep. | 11 15 15 | 269 35 | 11 14 57 |
| | ♂ 21 | 9 01 | Saturnus —— ab Humero præced. Orionis— | 36 46 40 | 880 72 | 36 46 43 |
| | | 03 | —— rep. | 36 46 35 | 880 69 | 36 46 38 |
| | | 08 | à Calce Castoris —— | 18 54 35 | 452 92 | 18 54 32 |
| | | 10 | —— rep. | 18 54 45 | 452 96 | 18 54 38 |
| | | 13 | ab Humero sequente Aurigæ | 32 02 30 | 767 01 | 32 02 24 |
| | | 21 | Sequens Humerus Aurigæ & præced. Orionis | 39 18 25 | 941 56 | 39 19 00 |
| | ☿ 29 | 8 24 | Saturnus —— ab Humero Aurigæ sequente | 31 33 40 | 755 51 | 31 33 34 |
| | | 28 | —— rep. | 31 33 40 | 755 54 | 31 33 40 |
| | | 33½ | ab Humero præcedente Orionis | 36 13 00 | 867 15 | 36 12 50 |
| | | 35½ | —— rep. | 36 13 00 | 867 17 | 36 12 53 |
| | | 39⅓ | à Calce Castoris —— | 18 15 45 | 437 35 | 18 15 33 |
| | | 41 | —— rep. | 18 15 40 | 437 33 | 18 15 30 |
| | | 48 | Humerus sequens Aurigæ & præced. Orionis | 39 18 40 | 941 62 | 39 19 09 |
| | | 11 04⅓ | Saturnus —— à Calce Castoris —— iterùm | 18 15 15 | 437 17 | 18 15 06 |
| | | 06½ | —— rep. | 18 15 15 | 437 16 | 18 15 05 |
| Oppos. Solis & Saturni. | | 13 | à Procyone —— | 16 01 40 | 383 89 | 16 01 37 |
| Sat. in Oppos. Solis, in Cancri | | 15 | —— rep. | 16 01 40 | 383 89 | 16 01 37 |
| 19° ½ Lat. | | 19 | à Castore —— | 10 40 25 | 255 50 | 10 40 18 |
| Austr. 0 ½. | | 21 | —— rep. | 10 40 30 | 255 52 | 10 40 21 |
| | | 25 | à Pede Geminorum lucido — | 15 52 20 | 380 43 | 15 52 57 |
| | | 27 | —— rep. | 15 52 20 | 380 43 | 15 52 57 |
| | | 31 | Procyon —— à Pede lucido —— | 18 47 05 | 449 84 | 18 46 50 |
| | | 35 | à Calce Castoris —— | 25 15 45 | 604 81 | 25 15 46 |
| | | 40 | Pollux —— à Pede lucido —— | 19 29 55 | 467 23 | 19 30 28 |
| | | 44 | à Calce Castoris —— | 19 26 25 | 465 95 | 19 27 00 |
| | | 46 | —— rep. | 19 26 25 | 465 96 | 19 27 01 |

| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | SATURNI DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ' " | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| ♃ Dec. 30 | 8 22 | *Saturnus* —— à Calce Caſtoris —— | 18 10 45 | 435 42 | 18 10 42 | |
| MDCLXXXI. | | | | | | |
| ☿ Jan. 5 | 7 46 | *Saturnus* —— à lucido Pede Geminorum | 15 22 50 | 368 39 | 15 22 50 | |
| | 48½ | —— rep. | 15 22 40 | 368 34 | 15 22 44 | *Saturnus in Cancri 19° Merid. Retrog.* |
| | 52 | à Calce Caſtoris —— | 17 41 30 | 423 75 | 17 41 29 | |
| | 55 | —— rep. | 17 41 20 | 423 68 | 17 41 17 | |
| | 59½ | à Caſtore —— | 10 30 05 | 251 41 | 10 30 05 | |
| ☽ 10 | 9 20 | *Saturnus* —— à Calce Caſtoris —— | 17 16 50 | 414 03 | 17 17 06 | |
| | 26 | —— rep. | 17 16 50 | 414 03 | 17 17 06 | *Sat. in Cancri 18½ Merid. Retrogr.* |
| | 31 | à Procyone —— | 16 12 45 | 388 36 | 16 12 48 | |
| | 33 | —— rep. | 16 12 45 | 388 35 | 16 12 47 | |
| ♂ Feb. 22 | 7 34½ | *Saturnus* —— à Calce Caſtoris —— | 14 56 10 | 357 81 | 14 56 21 | |
| | 37 | —— rep. | 14 56 10 | 357 77 | 14 56 15 | *Sat. in Cancri 16 gr. Merid. Retrogr.* |
| | 42½ | à Procyone —— | 16 54 20 | 404 95 | 16 54 21 | |
| | 44 | —— rep. | 16 54 20 | 404 95 | 16 54 21 | |
| | 46½ | *Procyon* —— à Calce Caſtoris —— | 25 15 50 | 604 83 | 25 15 50 | |
| ☿ Mar. 23 | 8 42½ | *Saturnus* —— à Regulo —— | 39 30 15 | 946 17 | 39 30 35 | |
| | 46½ | —— rep. | 39 30 15 | 946 17 | 39 30 35 | *Sat. in Cancri 16° Merid. juxta Nodum Bor.* |
| | 53 | à Procyone —— | 16 54 15 | 404 91 | 16 54 15 | |
| | 55 | —— rep. | 16 54 15 | 404 89 | 16 54 12 | |
| ☽ 28 | 8 47 | *Saturnus* —— à Regulo —— | 39 19 30 | 941 90 | 39 19 51 | |
| ♃ 31 | 8 07 | *Saturnus* —— à Regulo —— | 39 12 00 | 938 69 | 39 11 48 | |
| | 10 | —— rep. | 39 11 50 | 938 63 | 39 11 39 | |
| | 14½ | *Regulus* —— à Procyone —— | 37 21 40 | 894 80 | 37 21 58 | |
| | 19 | *Saturnus* —— à Procyone —— | 16 49 25 | 403 01 | 16 49 30 | *Sat. in Cancri 16°½ Merid. juxta Nodum Bor. dir.* |
| | 23 | —— rep. | 16 49 25 | 403 01 | 16 49 3[illegible] | |
| ♃ Apr. 21 | 8 48 | *Saturnus* —— à Regulo —— | 37 54 10 | 907 76 | 37 54 24 | |
| | 49¾ | —— rep. | 37 54 05 | 907 76 | 37 54 24 | *Sat. in Cancri 17° Merid. directus.* |
| | 55 | à Caſtore —— | 10 07 00 | 242 19 | 10 07 00 | |
| ☉ Sept. 4 *vel* ☽ 5 *mane.* | 16 22 | *Saturnus* —— à Caſtore —— | 19 52 10 | 475 98 | 19 52 27 | |
| | 23½ | —— rep. | 19 52 20 | 476 08 | 19 52 42 | |
| | 27 | à Procyone —— | 20 00 50 | 479 44 | 20 01 09 | *Sat. in Leonis 3° Sept. dir.* |
| | 29 | —— rep. | 20 00 50 | 479 43 | 20 01 06 | |
| ♀ 16 *vel* ♄ 17 *mane.* | 14 22½ | *Saturnus* ab Aſello Auſtr. 3125 = 15′ . 35″ A* | | | | |
| | 28 | —— rep. 3105 = 15 . 29 A* | | | | |
| | 34 | Altitud. differentia — 1330 = 6 . 38 Z* | | | | *Sat. in Leonis 4° ½.* |
| | 36½ | —— rep. 1330 = 6 . 38 Z* | | | | |
| | 41½ | —— iterùm 1425 = 7 . 06 Z* | | | | |
| | 44 | *Saturnus* ab Aſello — 3108 = 15 . 30 A* | | | | |
| | 15 32 | à Calce Caſtoris —— | 33 29 00 | 801 54 | 33 28 44 | |
| | 35 | —— rep. | 33 28 50 | 801 55 | 33 28 45 | |
| | 38 | *Calx Caſtoris* — ab Aſello —— | 33 25 45 | 800 21 | 33 25 24 | |
| | 41 | —— rep. | 33 25 45 | 800 19 | 33 25 21 | |
| ☉ Oct. 2 | 17 56 | *Saturnus* —— à Calce Caſtoris —— | 34 39 50 | 829 98 | 34 39 51 | *Sat. in Leonis 5° directus.* |
| | 58 | —— rep. | 34 40 00 | 830 00 | 34 39 54 | |
| ♂ 11 | 16 44 | *Saturnus* —— à Calce Caſtoris —— | 35 09 10 | 841 68 | 35 09 06 | |

| | Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *SATURNI* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Sat. in Leonis 6°.* | ♂ Oct. 11 | 16 46 | *Saturnus* — à Calce Castoris — rep. | 35 09 10 | 841 68 | 35 09 06 |
| | | 57 | à Collo Hydræ — θ | 16 36 05 | 397 62 | 16 36 00 |
| | | 59 | — rep. | 16 36 05 | 397 62 | 16 36 00 |
| | | 17 05 | *Calx Castoris* — ab Hydræ θ, — *bis* | 46 10 40 | 1105 70 | 46 10 22 |
| *Sat. in Leonis 7°.* | ♃ Nov. 3 *vel* ♀ 4 *mane.* | 16 01 | *Saturnus* — à Calce Castoris — | 35 46 30 | 856 45 | 35 46 02 |
| | | 04 | — rep. | 35 46 30 | 856 44 | 35 46 00 |
| *Sat. in Leonis 7° dir. Sept.* | ☽ Nov. 21 | 17 10 | *Saturnus* — à Regulo — | 19 00 25 | 455 25 | 19 00 22 |
| | | 12 | — rep. | 19 00 20 | 455 20 | 19 00 15 |
| | | 17 | ab ultima in Capite Hydræ ζ | 12 04 10 | 289 03 | 12 04 13 |
| | | 20 | — rep. | 12 04 05 | 289 00 | 12 04 09 |
| *Sat. in Leonis 6°.* | ♂ 29 | 17 05 | *Saturnus* — à Regulo — | 19 14 35 | 461 00 | 19 14 50 |
| | | 07 | — rep. | 19 14 35 | 461 01 | 19 14 51 |
| | | 14 | ab ultima in Capite Hydræ ζ | 12 09 35 | 291 18 | 12 09 36 |
| | MDCLXXXII. | | | | | |
| *Sat. in Leonis 3½ Septent. 3 dies ante Phasin Acronicam.* | ♀ Jan. 8 | 13 45 | *Saturnus* — à Calce Castoris — | 32 38 30 | 781 61 | 32 38 52 |
| | | 47 | — rep. | 32 38 25 | 781 62 | 32 38 56 |
| | | 50 | *Calx Castoris* — ab Hydræ — ζ | 40 19 30 | 965 78 | 40 19 45 |
| | | 52 | — rep. | 40 19 30 | 965 82 | 40 19 51 |
| | | 58 | *Saturnus* — à Regulo — | 21 57 10 | 525 67 | 21 57 19 |
| | | 14 00 | — rep.:: | 21 57 30 | 525 84 | 21 57 45 |
| | | 02 | — iter. | 21 57 20 | 525 73 | 21 57 28 |
| | | 07 | *Regulus* — ab Hydræ — ζ | 19 00 30 | 455 43 | 19 00 50 |
| | | 14 | *Saturnus* — ab Hydræ — ζ | 13 21 55 | 320 03 | 13 21 50 |
| | | 16 | — rep. | 13 22 00 | 320 05 | 13 21 52 |
| *Sat. in Leonis 2° ⅔ Septent. 5 dies post Solis Oppos.* | ♂ 17 | 9 51 | *Saturnus* — à Calce Cast. prop. ventum :: | 31 54 40 | 763 93 | 31 54 40 |
| | | 54 | — melius rep. | 31 54 50 | 763 98 | 31 54 48 |
| | | 59 | *Saturnus* — à lucid. Pede Gem. sat benè | 28 58 20 | 693 77 | 28 58 48 |
| | | 10 04 | à Procyone ; vento quietiore | 19 59 20 | 478 90 | 19 59 48 |
| | | 08 | à Castore. Sat accurate — | 19 18 40 | 462 59 | 19 18 48 |
| | | | *Sæviente interdùm vento, nubibusque unamquamque observationem interpellantibus.* | | | |
| | ♀ 27 | 9 14 | *Saturnus* — à Procyone — | 19 34 25 | 469 02 | 19 34 58 |
| | | 16 | — rep. | 19 34 20 | 469 01 | 19 34 57 |
| | | 20 | à Calce Castoris — | 31 07 20 | 745 03 | 31 07 24 |
| *Sat. in Leonis 2° 0½ Bor. Ret.* | | 22 | — rep. | 31 07 25 | 745 05 | 31 07 27 |
| | | 26 | à Castore — | 18 37 20 | 446 00 | 18 37 12 |
| | | 28 | — rep. | 18 37 15 | 445 97 | 18 37 07 |
| *Sat. in Leonis 2° Bor. 0½* | ☽ Mar. 6 | 8 23 | *Saturnus* — à Polluce — | 12 33 00 | 300 55 | 12 33 03 |
| | | 25 | — rep. | 12 33 00 | 300 52 | 12 32 58 |
| | | 30 | à Procyone — | 18 35 55 | 445 71 | 18 36 28 |
| | | 32 | — rep. | 18 35 55 | 445 71 | 18 36 28 |
| | | | *Dubiæ hæ ; vide distantias Lunares ejusdem noctis.* | | | |
| *Sat. in Leonis 0 Retrograd.* | ☿ 8 | 8 45 | *Saturnus* — à Jove — | 19 19 45 | 463 22 | 19 20 24 |
| *Sat. in Leonis 0° Retrograd.* | ♀ 31 | 9 27 | *Saturnus* — à Regulo — | 25 37 40 | 613 77 | 25 38 15 |
| | | 30½ | — rep. | 25 37 40 | 613 81 | 25 38 21 |

| Anno Christi MDCLXXXII. Mense Die Styl. Vet. | Temp. Ap. H. M. | SATURNI DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♀ Mar. 31 | 9 34 | *Saturnus* —— à Jove —— | 17 34 25 | 421 14 | 17 34 54 | |
| | 36 | —— rep. | 17 34 30 | 421 18 | 17 35 00 | |
| | | *Saturnus erat in antecedentia Reguli, Jupiter Saturni, uterque cum exigua aliqua latitudine Boreali: additæ hæ distantiæ conficiunt 43° 12′ 10″, Jovis à Regulo distantiam eodem tempore observatam, prout debent. Liquida comprobatio tum certæ Observationis, tum præstantis Instrumenti.* | | | | |
| ♃ Apr. 20 | 9 00½ | *Saturnus* —— à Regulo —— | 24 53 40 | 596 03 | 24 53 47 | *Sat. in Leonis 0½ Bor. 0½ direct.* |
| | 02 | —— rep. | 24 53 40 | 596 06 | 24 53 51 | |
| ♀ 28 | 9 01½ | *Saturnus* —— à Regulo —— | 24 25 10 | 584 68 | 24 25 20 | |
| | 04 | —— rep. | 24 25 10 | 584 68 | 24 25 20 | *Sat. in Leonis 1° dir.* |
| | 09 | à Jove —— | 14 57 35 | 358 33 | 14 57 39 | |
| | 11 | —— rep. | 14 57 50 | 358 39 | 14 57 48 | |
| ☽ Maij 15 | 9 41 | *Saturnus* —— à Jove —— | 13 16 30 | 317 88 | 13 16 25 | |
| | 44 | —— rep. | 13 16 20 | 317 81 | 13 16 15 | *Sat. in Leonis 2° dir. Sept.* |
| | 50 | à Regulo —— | 23 06 00 | 553 01 | 23 06 00 | |
| | 52 | —— | 23 05 55 | 552 99 | 23 05 57 | |
| ♀ Sep. 8 *vel* ♄ 9 *mane.* | 16 26¼ | *Saturnus* —— à Calce Castoris —— :: | 45 09 55 | 1081 59 | 45 09 44 | |
| | 29⅓ | —— rep. | 45 10 05 | 1081 56 | 45 09 48 | |
| | 45 | *Saturnus* —— ab ε Leonis —— | 08 52 40 | 212 46 | 08 52 35 | |
| | 46¼ | —— rep. | 08 52 30 | 212 44 | 08 52 32 | *Sat. in Leonis 16° dir. Sept.* |
| | 51 | *Calx Castoris* – ab ε Leonis —— | 46 24 05 | 1111 07 | 46 23 51 | |
| | 52½ | —— rep. | 46 24 15 | 1111 15 | 46 24 03 | |
| | 17 06 | *Saturnus* —— à Calce —— | 45 10 40 | 1081 82 | 45 10 27 | |
| | 07½ | —— rep. | 45 10 35 | 1081 79 | 45 10 22 | |
| ♃ 21 *vel* ♀ 22 *mane* | 17 18 | *Saturnus* —— à Regulo —— | 08 05 00 | 193 33 | 08 04 40 | |
| | 20¾ | —— rep. | 08 05 00 | 193 33 | 08 04 40 | *Sat. in Leonis 17° dir. Sept.* |
| | 35 | *Saturnus* —— à Calce Castoris —— | 46 30 35 | 1113 59 | 46 30 10 | |
| | 37 | —— rep. | 46 30 35 | 1113 65 | 46 30 20 | |
| ♃ 28 *vel* ♀ 29 *mane* | 16 39¼ | *Saturnus* —— à Calce Castoris —— | 47 08 25 | 1128 76 | 47 08 12 | *Sat. in Leonis 17°½ dir. Sept.* |
| | 41 | —— rep. | 47 08 25 | 1128 74 | 47 08 09 | |
| ♃ Oct. 5 *vel* ♀ 6 *mane.* | 17 51 | Jupiter à Saturno, Tubo longiore 6998 = | 00 34 54 | | | |
| | 54½ | inter Centra, rep. 6978 = | 00 34 48 | | | |
| | | *Jupiter erat in antecedentia cum latitudine minore.* | | | | |
| ♃ 12 *vel* ♀ 13 *mane* | 13 49 | Inter Centra Jovis & Saturni —— 3212 = | 00 16 02 | | | |
| | 54 | —— rep. 3220 = | 00 16 04 | | | |
| | 14 03 | Inter limbos prox. —— 3078 = | 00 15 22 | | | |
| | | *Observante* T. Fabro, *meipso tum calculo laborante.* | | | | |
| ♂ 17 | 14 10 | Inter centra Jovis & Saturni —— 4038 = | 00 20 09 | | | |
| | 17 | —— rep. 4049 = | 00 29 12 | | | |
| | 21 | —— 4057 = | 00 20 14 | | | |
| | 25½ | Inter limbos prox. —— 3955 = | 00 19 44 | | | |

| | Anno Christi MDCLXXXII. Mense Die. Styl. Vet. | Temp. App. H. M. | SATURNI DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| Sat. in Leonis 19° Sept. dir. | ♂ Oct. 17 | 14 33 | Inter limbos rem. Jovis & Saturni 4131 = | 00 20 37 | | |
| | | 15 09 | *Saturnus* —— à Calce Castoris —— | 48 32 25 | 1162 25 | 48 32 07 |
| | | 14 | *Jupiter* —— à Calce Castoris —— | 48 45 05 | 1167 45 | 48 45 10 |
| | | 17 | —— rep. | 48 45 20 | 1167 57 | 48 45 28 |
| | | 20 | *Saturnus* —— à Calce iterum | 48 32 20 | 1162 25 | 48 32 07 |
| | | 50 | Inter centra, Tubo iterum —— 4111 = | 00 20 30 | | |
| | | | *Difficilis erat observatio per Sextantem propter venti violentiam; repetitis autem ut potui diligenter & frequentissimè mensuris, easdem semper reperi, unde non inaccuratas existimo.* | | | |
| | ♃ 19 | 15 41 | Inter limbos rem. Saturni & Jovis 5220 = | 00 26 02 | | |
| | | 45 | Inter centra —— 5135 = | 00 25 37 | | |
| | | 47 | Inter limbos prox. —— 5050 = | 00 25 11 | | |
| | ☉ 22 vel ☽ 23 mane | 18 25 | Inter Centra Saturni & Jovis —— 6881 = | 00 34 19 | | |
| | | 29 | —— rep. 6902 = | 00 34 26 | | |
| Sat. in Leonis 20. Sept. 1° dir. | ♂ Nov. 7 vel ☿ 8 mane. | 17 00 | *Saturnus* —— à Calce Castoris —— | 49 26 10 | 1183 86 | 49 26 16 |
| | | 02 | —— rep. | 49 26 15 | 1183 90 | 49 26 22 |
| | | 14 | *Saturnus* —— ab ε Leonis —— | 09 33 45 | 0228 85 | 09 33 36 |
| | ♃ 9 | 19 05 | *Saturnus* —— à Jove —— | 01 21 00 | 0032 28 | 01 20 51 |
| Sat. in Leonis 20 Sept. retr. | ♂ 21 | 18 11 | *Saturnus* —— à Polluce —— | 32 00 20 | 0765 97 | 31 59 46 |
| | | 13 | —— rep. | 32 00 20 | 0765 96 | 31 59 45 |
| Sat. in Leonis 19 Sept. Ret. | ☽ Dec. 25 vel ♂ 26 mane. | 18 28 | *Saturnus* —— ab infima in Cing. Virg. γ | 46 26 25 | 1111 98 | 46 26 07 |
| | | 30 | —— rep. | 46 26 30 | 1112 03 | 46 26 15 |
| | MDCLXXXIII. | | | | | |
| Sat. in Leonis 18. Sept. Ret. | ♀ Jan. 10 | 11 00 | *Saturnus* —— à Calce Castoris —— | 47 24 40 | 1135 28 | 47 24 32 |
| | | 02 | —— rep. | 47 24 45 | 1135 31 | 47 24 36 |
| | ♀ 19 | 6 41 | Saturni & Jovis inter Centra —— 6710 = | 00 33 28 | | |
| | | 45 | —— rep. 6696 = | 00 33 24 | | |
| | | 49 | Satur. limbus Globi rem. à limbo Jovis remoto —— } 6790 = | 00 33 52 | | |
| | | | *Saturni corpore extra Annulum ab inferiori parte protruso.* | | | |
| | ♄ 20 | 17 14½ | Inter limbos Saturni & Jovis rem. 6245 = | 00 31 09 | | |
| | | 19½ | —— rep. 6238 = | 00 31 07 | | |
| | | 31 | Inter centra —— 6142 = | 00 30 38 | | |
| | | 33 | —— rep. 6130 = | 00 30 35 | | |
| | ☿ 24 | 6 47 | Inter limbos prox. Saturni & Jovis 3855 = | 00 19 14 | | |
| | | 54 | —— rep. 3833 = | 00 19 07 | | |
| | | 56 | —— iterum. 3830 = | 00 19 06 | | |
| | | 59 | Inter centra —— 3950 = | 00 19 42 | | |
| | | 7 01 | —— rep. 3960 = | 00 19 45 | | |
| | | 08 | Inter limbos extremos —— 4037 = | 00 20 08 | | |
| Sat. in ♌ 17° Sept. 1° dir. | | 11 04 | *Saturnus* —— à Regulo —— | 08 20 25 | 199 55 | 08 20 15 |
| | | 06 | —— rep. | 08 20 25 | 199 53 | 08 20 12 |

| Anno Christi MDCLXXXIII. Menſe Die Styl. Vet. | Temp. App. H. | M. | SATURNI DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° | ′ | ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. | Cent. | ° | ′ | ″ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☿ Jan. 24 | 11 | 15 | *Saturnus* ——— à Calce Caſtoris ——— | 46 | 18 | 15 | 1108 | 78 | 46 | 18 | 06 | |
| | | 17 | ——— rep. | 46 | 18 | 10 | 1108 | 75 | 46 | 18 | 01 | |
| | | 32 | à clara in Capite Leonis ε | 08 | 30 | 50 | 203 | 77 | 08 | 30 | 50 | |
| | | 37 | ——— rep. | 08 | 30 | 45 | 203 | 80 | 08 | 30 | 54 | |
| | | 39 | *Regulus* ——— à dicta Leonis ——— ε | 12 | 58 | 35 | 310 | 64 | 12 | 58 | 18 | |
| | | 41 | ——— rep. | 12 | 58 | 30 | 310 | 60 | 12 | 58 | 12 | |
| | | 45 | *Calx Caſtoris* — à Regulo ——— | 54 | 34 | 20 | 1306 | 84 | 54 | 34 | 10 | |
| | | 49 | à Leonis ——— ε | 46 | 24 | 45 | 1111 | 50 | 46 | 24 | 55 | |
| | | | *Vide diſtantias Jovis ab iiſdem fixis ſub Jove.* | | | | | | | | | |
| ♀ 26 | 6 | 03 | Inter centra Jovis & Saturni ——— 3033 = | 00 | 15 | 08 | | | | | | |
| | | 07 | ——— rep. 3026 = | 00 | 15 | 06 | | | | | | |
| | 7 | 00 | Limbos inter remotos ——— 3109 = | 00 | 15 | 31 | | | | | | |
| | | 08 | rep. à *T. Fabro* — 3103 = | 00 | 15 | 29 | | | | | | |
| | | 12 | Inter centra ——— 3025 = | 00 | 15 | 05 | | | | | | |
| | | 14 | ——— rep. 3016 = | 00 | 15 | 02 | | | | | | |
| | | 17 | Inter limbos prox. ——— 2902 = | 00 | 14 | 29 | | | | | | |
| | | 20 | ——— rep. 2910 = | 00 | 14 | 31 | | | | | | |
| | | 21 | ——— iterum. 2893 = | 00 | 14 | 26 | | | | | | |
| | 9 | 28 | *Saturnus* ——— à Calce Caſtoris ——— | 46 | 08 | 50 | 1104 | 93 | 46 | 08 | 27 | |
| | | 30 | ——— rep. | 46 | 08 | 55 | 1104 | 99 | 46 | 08 | 36 | *Sat. tum Jove in Leonis 17° in Oppoſ. Sol. Sept. retrog.* |
| | | 40½ | à clarâ in capite Leonis ε | 08 | 29 | 35 | 203 | 37 | 08 | 29 | 50 | |
| | | 42½ | ——— rep. | 08 | 29 | 40 | 203 | 42 | 08 | 29 | 57 | |
| | | 52½ | ——— iter. | 08 | 29 | 35 | 203 | 24 | 08 | 29 | 28 | |
| | | 54 | ——— denuo. | 08 | 29 | 35 | 203 | 28 | 08 | 29 | 35 | |
| ♂ 30 | 5 | 28 | Inter centra Jovis & Saturni ——— 2325 = | 00 | 11 | 36 | | | | | | |
| | | 30 | ——— rep. 2314 = | 00 | 11 | 33 | | | | | | |
| | | 34 | Inter limbos remot. ——— 2398 = | 00 | 11 | 58 | | | | | | |
| | | 36 | ——— rep. 2408 = | 00 | 12 | 01 | | | | | | |
| | | 38 | Inter limbos prox. ——— 2210 = | 00 | 11 | 01 | | | | | | |
| | | 41 | ——— rep. 2205 = | 00 | 11 | 00 | | | | | | |
| ☿ 31 | 8 | 29 | Inter limbos prox. Saturni & Jovis 2372 = | 00 | 11 | 50 | | | | | | |
| | | 40 | — dub. rep. vent. 2436 = | 00 | 12 | 09 | | | | | | |
| | | 50 | — paulo melius 2450 = | 00 | 12 | 13 | | | | | | |
| ♃ Feb. 1 | 9 | 21 | Inter centra Jovis & Saturni ——— 2842 = | 00 | 14 | 11 | | | | | | |
| | | 25 | ——— rep. 2844 = | 00 | 14 | 11 | | | | | | |
| ♀ 2 | 5 | 28 | Inter limbos rem. Jovis & Saturni 3275 = | 00 | 16 | 20 | | | | | | |
| | | 31 | ——— rep. 3266 = | 00 | 16 | 17 | | | | | | |
| | | 33 | Inter centra ——— 3194 = | 00 | 15 | 56 | | | | | | |
| | | 35 | ——— rep. 3189 = | 00 | 15 | 55 | | | | | | |
| | | 42 | ——— iterum 3195 = | 00 | 15 | 56 | | | | | | |
| | | 46 | Inter limbos prox. ——— 3078 = | 00 | 15 | 21 | | | | | | |
| | | 49 | ——— rep. 3081 = | 00 | 15 | 22 | | | | | | |
| | 7 | 08 | *Saturnus* ——— à Regulo ——— | 09 | 02 | 45 | 216 | 48 | 09 | 02 | 39 | |
| | | 10 | ——— rep. | 09 | 02 | 45 | 216 | 47 | 09 | 02 | 38 | *Sat. in Leonis 16⅔ Sept. 1° ¼ Retrog.* |
| | | 20 | ab ε Leonis ——— | 08 | 27 | 25 | 202 | 41 | 08 | 27 | 24 | |
| | | 22 | ——— rep. | 08 | 27 | 25 | 202 | 45 | 08 | 27 | 30 | |
| | | 28 | *Saturnus* ——— à Jove, inter centra ——— | 00 | 16 | 05 | 6 | 47 | 00 | 16 | 13 | |
| | | 32 | ——— rep. | 00 | 16 | 05 | 6 | 47 | 00 | 16 | 13 | |
| ♄ 3 | 7 | 40 | Inter limbos prox. Saturni & Jovis 3527 = | 00 | 17 | 36 | | | | | | |
| | | 49 | ——— rep. 3510 = | 00 | 17 | 31 | | | | | | |
| | | 53 | ——— iterum 3515 = | 00 | 17 | 32 | * | | | | | |

| | Anno Christi MDCLXXXIII. Mense Die Styl. Vet. | Temp. App. H. M. | SATURNI. DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♄ Feb. 3 | 7 59 | Inter centra —— 3670 = | 00 18 19 | | |
| | ☿ 7 | 7 37 | Inter centra Jovis & Saturni —— 5730 = | 00 28 35 | | |
| | | 40 | —— rep. 5728 = | 00 28 34 | | |
| | ♀ 16 | 8 31 | *Saturnus* —— à Calce Castoris —— | 44 31 00 | 1065 98 | 44 30 48 |
| *Sat. in Leonis 15½ Sept. 1°½ Ret.* | | 33 | —— rep. | 44 31 10 | 1065 99 | 44 30 50 |
| | | 39 | ab ε in capite Leonis —— | 08 29 25 | 203 28 | 08 29 36 |
| | | 41 | —— rep. | 08 29 25 | 203 32 | 08 29 42 |
| | | 53 | à Regulo —— | 10 07 35 | 242 39 | 10 07 30 |
| | | 55 | —— rep. | 10 07 25 | 242 31 | 10 07 18 |
| | ☉ 25 | 8 41 | *Saturnus* —— à Calce Castoris —— | 43 55 10 | 1051 58 | 43 54 45 |
| *Sat. in Leonis 14° Sept. Ret.* | ☽ Mar. 19 | 10 36 | *Saturnus* —— à Calce Castoris —— | 42 55 15 | 1027 80 | 42 55 10 |
| | | 38 | —— rep. | 42 55 15 | 1027 86 | 42 55 19 |
| | | 48 | à Regulo —— | 11 43 05 | 280 60 | 11 43 07 |
| | | 50 | —— rep. | 11 43 05 | 280 62 | 11 43 10 |
| | | 53 | *Saturnus* —— à Jove —— | 01 30 45 | 36 21 | 01 30 42 |
| | | 56 | —— rep. | 01 30 55 | 36 28 | 01 30 52 |
| *Sat. in Leonis 14° Sept. dir.* | ♃ Apr. 19 | 9 27 | *Saturnus* —— à Regulo —— | 11 44 05 | 280 96 | 11 44 01 |
| | | 30 | —— rep. | 11 44 05 | 280 98 | 11 44 05 |
| | | 49 | *Saturnus* —— ab η Virginis —— | 46 40 50 | 1117 79 | 46 40 45 |
| | | 52 | —— rep. | 46 40 50 | 1117 81 | 46 40 46 |
| *Sat. in Leonis 14°½ Sept. dir.* | ♀ 27 | 8 25 | *Saturnus* —— à Jove. ob vent. dub. 7175 = | 00 35 47 | | |
| | | 9 45 | à Regulo —— | 11 27 45 | 274 44 | 11 27 42 |
| | | 47 | —— rep. | 11 27 25 | 274 34 | 11 27 27 |
| | ♄ 28 | 10 21 | Saturnus à Jove, inter centra —— 6531 = | 00 32 35 | | |
| | | 23 | —— rep. 6526 = | 00 32 33 | | |
| | | 24 | Inter limbos proximos —— 6428 = | 00 32 04 | | |
| | | 26 | —— rep. 6423 = | 00 32 02 | | |
| | ♃ Maij 3 | 9 51 | *Saturnus* —— ab ε in Capite Leonis clarâ | 08 42 35 | 208 53 | 08 42 44 |
| *Sat. in Leonis 14°½ Sept. dir.* | | 54 | —— rep. | 08 42 30 | 208 45 | 08 42 33 |
| | | 10 15 | à Regulo —— | 11 11 30 | 267 89 | 11 11 18 |
| | | 18 | —— rep. | 11 11 30 | 267 92 | 11 11 23 |
| | | 49 | Inter centra Jovis & Saturni —— 4158 = | 00 20 45 | | |
| | | 52 | —— rep. 4141 = | 00 20 40 | | |
| | ☽ 7 | 9 03½ | *Saturnus* —— à Regulo —— | 10 58 50 | 262 80 | 10 58 33 |
| | | 05 | —— rep. | 10 58 50 | 262 78 | 10 58 30 |
| | | 17 | à clarâ in Capite Leonis ε | 08 39 40 | 207 38 | 08 39 51 |
| | | 18 | —— rep. | 08 39 40 | 207 39 | 08 39 53 |
| | | 10 26 | à prima alæ Virginis —— | 38 10 55 | 914 42 | 38 11 03 |
| | | 28 | —— rep. | 38 10 45 | 914 36 | 38 10 54 |
| | | | *Saturnus in ♌ 14° 27′ Jovi proximus eo erat borealior 15′ 40″, & 1′ 6″ in Consequentia: Conjunctio itaque futura post horas 8, vel 17ʰ p.m. in Leonis 14° 28′.* | | | |
| | ♂ 8 | 9 49 | *Saturnus* —— à Regulo —— | 10 55 05 | 261 32 | 10 54 51 |
| | | 50 | —— rep. | 10 55 10 | 261 33 | 10 54 52 |
| *Sat. in Leonis 15° Sept. dir.* | ♀ 11 | 9 50 | *Saturnus* —— à Regulo —— | 10 44 05 | 257 01 | 10 44 05 |
| | | 51 | —— rep. | 10 44 05 | 257 00 | 10 44 03 |

| Anno Christi MDCLXXXIII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | SATURNI DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Maij 17 | 10 25 | *Saturnus* —— à Regulo —— | 10 20 20 | 247 50 | 10 20 17 | |
| | 27 | —— rep. | 10 20 20 | 247 50 | 10 20 17 | |
| ☿ 31 | 10 07 | *Saturnus* —— à Regulo —— | 09 12 55 | 220 47 | 09 12 37 | *Sat. in Leonis 16° Sept. dir.* |
| | 10 | —— rep. | 09 12 55 | 220 44 | 09 12 33 | |
| ☿ Nov. 1 | 18 02 | *Saturnus* —— à Regulo —— | 07 39 50 | 183 35 | 07 39 39 | *Sat. in Virginis 3° Sept. dir.* |
| | 04 | —— rep. | 07 39 40 | 183 27 | 07 39 27 | |
| ♂ 6 | 17 36 | *Saturnus* —— à Regulo —— | 07 56 00 | 189 71 | 07 55 36 | *Sat. in Virginis 3°.* |
| | 38 | —— rep. | 07 56 00 | 189 67 | 07 55 30 | |
| ☉ 11 | 19 10 | *Saturnus* —— à Regulo —— | 08 09 00 | 195 07 | 08 09 01 | *Sat. in Virginis 3° Sept. dir.* |
| | 14 | —— rep. | 08 09 05 | 195 08 | 08 09 03 | |
| ♂ Dec. 3 | 18 35 | *Saturnus* —— à Regulo —— | 08 36 40 | 206 19 | 08 36 52 | *Sat. in Virginis 4° Sept. Stat.* |
| | 36 | —— rep. | 08 36 40 | 206 18 | 08 36 54 | |
| MDCLXXXIV. | | | | | | |
| ♂ Jan. 22 | 9 06 | *Saturnus* —— à Regulo —— | 06 38 00 | 158::27 | 06::36 50 | *Sat. in Virginis 2° Sept. retr.* |
| | 07½ | —— rep. | 06 38 00 | 158::24 | 06::36 45 | |
| ♀ Feb. 15 | 10 07 | *Saturnus* —— à Calce Caſtoris —— | 59 11 50 | 1417 94 | 59 11 52 | *Sat. in Virginis o Sept. Retrog.* |
| | 09 | —— rep. | 59 11 50 | 1417 95 | 59 11 53 | |
| | 13 | *Saturnus* —— à Regulo —— | 04 46 25 | 114 40 | 04 46 51 | |
| | 15 | —— rep. | 04 46 30 | 114 41 | 04 46 53 | |
| ♀ Mar. 21 | 9 34 | *Saturnus* —— ab infima in Cingulo ♍ γ | 38 02 15 | 910 73 | 38 01 50 | *Sat. in Leonis 28° Sept. dir.* |
| | 37 | —— rep. | 38 02 15 | 910 73 | 38 01 50 | |
| ♄ Apr. 12 | 8 30 | *Saturnus* - - - à Jove —— | 15 55 40 | 381 40 | 15 55 22 | *Sat. in Leonis 27° Sept. Ret.* |
| | 31½ | —— rep. | 15 55 35 | 381 40 | 15 55 22 | |
| ♀ Maij 2 | 10 04 | *Saturnus* —— à Spica Virginis —— | 52 16 45 | 1251 93 | 52 16 50 | *Sat. in Leonis 27° Sept. Ret.* |
| | 06 | —— rep. | 52 16 50 | 1252 01 | 52 17 03 | |
| ☉ 11 | 8 54 | *Saturnus* —— à Spica Virginis —— | 51 58 25 | 1244 43 | 51 58 06 | *Sat. in Leonis 27° ½ Sept. dir.* |
| | 56 | —— rep. | 51 58 15 | 1244 44 | 51 58 08 | |
| ♂ Junij 24 | 9 18 | *Saturnus* —— à Spica Virginis —— | 48 46 25 | 1168 15 | 48 46 55 | *Sat. in Leonis 1° Sept. dir.* |
| | 21 | —— rep. | 48 46 15 | 1167 99 | 48 46 32 | |
| ♂ Oct. 14 | 17 34 | *Saturnus* —— à Regulo —— | 18 29 20 | 442 75 | 18 29 03 | *Sat. in Virginis 14° Sept. dir.* |
| | 36 | —— rep. | 18 29 15 | 442 75 | 18 29 03 | |
| MDCLXXXV. | | | | | | |
| ☉ Feb. 28 | 8 33 | *Saturnus* —— à Regulo —— | 17 48 50 | 426 63 | 17 48 40 | *Sat. in Virginis 15° Sept. dir.* |
| | 35½ | —— rep. | 17 48 55 | 426 71 | 17 48 52 | |
| ♄ Mar. 21 | 10 24 | *Saturnus* —— à Regulo —— | 16 23 00 | 392 47 | 16 23 06 | |
| | 27 | —— rep. | 16 23 00 | 392 48 | 15 23 07 | |
| | 31 | à Spica Virginis —— | 37 56 15 | 908 28 | 37 55 42 | *Sat. in Virginis 11° ¾ Sept. dir.* |
| | 34 | —— rep. | 37 56 15 | 908 27 | 37 55 40 | |
| | 38 | à Jove —— | 36 38 40 | 877 44 | 36 38 33 | |
| | 40 | —— rep. | 36 38 40 | 877 45 | 36 38 34 | |

| | Anno Christi MDCLXXXV. Mense, Die. Styl. Vet. | Temp. App. H. M. | SATURNI DITANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Sat. in Virginis 11° Sept. Retrograd.* | ☉ Apr. 5 | 8 40½ | *Saturnus* —— à Regulo —— | 15 34 55 | 373 28 | 15 35 03 |
| | | 48 | —— rep. | 15 35 10 | 373 39 | 15 35 20 |
| *Sat. in Virginis 10°½ Sept. directus.* | ♄ Maij 23 | 10 14 | *Saturnus* —— à Spica Virginis —— | 38 52 15 | 930 93 | 38 52 22 |
| | | 17 | —— rep | 38 52 45 | 931 08 | 38 52 45 |
| | | 20 | —— denuo. | 38 52 45 | 931 08 | 38 52 45 |
| | ♃ Oct. 22 | 17 00 | *Saturni Tubo pedum sedecim considerati ansulæ exiles valdè apparuere, ut vix per vapores & tenues nubeculas videre distinctè licuit; sequenti mane dilucidius & distinctius videbantur, eodem Tubo, & 28 mane adhùc magis patulæ & latiores.* | | | |
| *Sat. in Virginis 28° Sept.* | ♀ Nov. 6 | 17 40 | *Saturnus* —— à Regulo —— | 32 21 00 | 774 27 | 32 20 31 |
| | | 43 | —— rep. | 32 21 00 | 774 28 | 32 20 33 |
| | ☉ Dec. 6 | 17 56 | *Saturnus* —— à Regulo —— | 34 15 20 | 819 96 | 34 14 48 |
| | | 58 | —— rep. | 34 15 20 | 819 96 | 34 14 48 |
| | MDCLXXXVI. | | | | | |
| *Sat. in Lib. o Septem. 2°½ Retrogr.* | ☉ Jan. 10 | 17 04 | *Saturnus* —— à Regulo —— | 34 33 40 | 827 42 | 34 33 27 |
| | | 06 | —— rep. | 34 33 40 | 827 43 | 34 33 28 |
| | | 13 | à Vindemiatrice —— | 14 53 30 | 356 71 | 14 53 36 |
| | | 17 | —— rep. | 14 53 30 | 356 70 | 14 53 34 |
| | | 22 | à Spica Virginis —— | 19 58 00 | 478 04 | 19 57 37 |
| | | 25 | —— rep. | 19 58 05 | 478 03 | 19 57 36 |
| *Sat. in Virginis 28° Sept. Retrogr.* | ♃ Feb. 25 | 8 48 | *Saturnus* —— à Regulo —— | 32 03 50 | 767 39 | 32 03 20 |
| | | 51 | —— rep. | 32 03 50 | 767 40 | 32 03 21 |
| *Sat. in Virginis 27° cum 2°½ Lat. Bor. 3 dies ante Solis Oppos.* | ♂ Mar. 2 | 14 50 | *Saturnus* —— à Regulo —— | 31 39 40 | 758 12 | 31 40 09 |
| | | 52 | —— rep. | 31 39 40 | 758 13 | 31 40 11 |
| | | 55 | à Spica Virginis —— | 22 51 10 | 546 93 | 22 50 45 |
| | | 57 | —— rep. | 22 51 15 | 547 01 | 22 50 57 |
| *Sat. in Virginis 23° Sept. Stat.* | ♀ Maij 14 | 10 19 | *Saturnus* —— à Spica Virginis —— | 26 30 30 | 634 57 | 26 30 27 |
| | | 20 | —— rep. | 26 30 30 | 634 59 | 26 30 30 |
| *Sat. in Virginis 23° Sept. directus.* | ♃ 20 | 9 37 | *Saturnus* —— à Spica Virginis —— | 26 29 00 | 633 87 | 26 28 45 |
| | | 39 | —— rep. | 26 29 00 | 633 89 | 26 28 48 |
| | ♂ Junij 8 | *vesperi.* | *Ansulæ Saturni perexiguæ videbantur, Tubo pedum 27.* | | | |
| | ♃ 10 | | *Considerato Saturno Tubo pedum 27, Ansæ exiles valdè, sed latiores quàm ante biduum apparuere, nigra linea per faciem ad Boream à centro apparentèr, reverà ad Austrum transeunte.* | | | |
| *Sat. in Libra 5°½ Septem. directus.* | ♀ Oct. 6 | 18 16 | *Saturnus* —— à Regulo —— | 40 22 30 | 966 52 | 40 21 36 |
| *Sat. in Libra 8° Septem. directus.* | ♀ 29 | 18 40 | *Saturnus* —— à Regulo —— | 42 59 35 | 1029 42 | 42 59 13 |
| | | 42 | —— rep. | 42 59 40 | 1029 44 | 42 59 16 |

| ANNO CHRISTI MDCLXXXVII. Mense, Die. Styl. Vet. | Temp. App. M. H. | SATURNI DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♂ Jan. 18 | 17 33 | *Saturnus* —— à Regulo —— | 47 13 30 | 1130 90 | 47 13 33 | |
| | 35 | —— rep. | 47 13 20 | 1130 81 | 47 13 20 | *Sat. in Libra 12° ½ Septem. directus.* |
| ☽ Feb. 28 | 11 10 | *Saturnus* —— ab Arcturo —— | 29 31 00 | 706 58 | 29 30 54 | *Sat. in Libra 11° Sept. Ret.* |
| | 14 | —— rep. | 29 30 40 | 706 51 | 29 30 44 | |
| | 33 | à Regulo —— | 45 22 30 | 1086 58 | 45 22 24 | |
| | 35 | —— rep. | 45 22 15 | 1086 50 | 45 22 12 | |
| | | *Cepit Minister Staffordius cum D. Philippeo me valetudinario.* | | | | |
| ♂ Mar. 8 | 15 38 | *Saturnus* —— à Suprema in fronte Scorpij | 48 35 30 | 1163 45 | 48 35 09 | *Sat. in Libra 10° Sept. Ret.* |
| | 42 | —— rep. | 48 35 40 | 1163 54 | 48 35 22 | |
| | 48 | ab infima in Cingulo ♏ — | 04 24 35 | 105 59 | 04 24 44 | |
| | 51 | —— rep. | 04 24 25 | 105 56 | 04 24 39 | |
| ☽ 21 | 10 10 | *Saturnus* —— à Regulo —— | 43 48 40 | 1049 00 | 43 48 18 | *Sat. in Libra 9° cum Lat. Septent. 2° ½ 2 dies post Oppos. Solis.* |
| | 12 | —— rep. | 43 48 40 | 1048 87 | 43 47 58 | |
| | 16½ | à primâ Alæ Virginis — β | 16 38 35 | 398 54 | 16 38 18 | |
| | 19 | —— rep. | 16 38 35 | 398 55 | 16 38 20 | |
| | 22 | ab imâ in Cingulo ♍ γ | 03 25 40 | 082 01 | 03 25 33 | |
| | 25 | —— rep. | 03 25 30 | 081 96 | 03 25 25 | |
| | 30 | à Spica Virginis —— | 11 17 20 | 270 14 | 11 16 55 | |
| | 36 | ab Arcturo —— | 29 56 55 | 717 02 | 29 57 01 | |
| | 38 | —— rep. | 29 56 55 | 717 06 | 29 57 07 | |
| ♄ Apr. 16 | 9 07 | *Saturnus* —— à Regulo —— | 41 56 40 | 1004 25 | 41 56 12 | |
| | 10 | —— rep. | 41 56 40 | 1004 23 | 41 56 09 | *Sat. in Libra 7° ½ Septent. Retrograd.* |
| | 14½ | ab Arcturo —— | 30 36 35 | 732 88 | 30 36 53 | |
| | 17 | —— rep. | 30 36 30 | 732 83 | 30 36 45 | |
| ☽ Maij 2 | 8 38 | *Saturnus* —— à γ Virg. Tub. br. 5304 = | 00 43 36 | | | |
| | 42 | melius rep. —— 5342 = | 00 43 55 | | | |
| | 48½ | xa dec. fixa Boreal. 3099 = | 00 25 29 | | | |
| | 9 14 | *Regulus* —— à fixa γ Virginis —— | 40 23 50 | 967 10 | 40 23 03 | |
| | 16½ | —— rep. | 40 23 50 | 967 07 | 40 22 58 | |
| | 19 | *Saturnus* —— à Regulo —— | 41 05 50 | 984 10 | 41 05 40 | |
| | 20 | —— rep. | 41 05 50 | 984 09 | 41 05 39 | |
| | 25½ | *Saturnus* —— ab Arcturo —— | 30 58 15 | 741 84 | 30 58 30 | |
| | 27½ | —— rep. | 30 58 25 | 741 54 | 30 58 19 | |
| | 30 | *Arcturus* —— à γ Virginis —— | 31 06 35 | 744 82 | 31 06 52 | |
| | 32 | —— rep. | 31 06 45 | 744 84 | 31 06 55 | |
| ♂ 31 | 10 44 | *Saturnus* —— à Spica Virginis —— | 14 16 00 | 341 56 | 14 15 42 | |
| | 46 | —— rep. | 14 16 10 | 341 65 | 14 15 55 | |
| | 49 | *Fixa Saturno propinqua* — } à Spica Virginis —— | 14 30 05 | 347 24 | 14 29 54 | |
| | 55 | *Saturnus* —— ab Arcturo —— | 31 15 45 | 748 63 | 31 16 24 | |
| | 57 | —— rep. | 31 15 40 | 748 58 | 31 16 16 | |
| | 59 | *Fixa eadem* — ab Arcturo —— | 31 05 15 | 744 29 | 31 05 33 | |
| | | *Saturnus enim propinquus erat fixæ γ Virginis, cujus ab ea distantias ceperam Tubo longiore, horis.* | | | | |
| | 9 | $9^h$ 26, *Saturnus* à fixa γ Virginis 3645 = | | | | |
| | | 9 34 —— rep. 3652 = | | | | |

| | Anno Christi MDCLXXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | SATURNI DISTANTIÆ à FIXIS. | | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|
| | ♂ Jan. 31 | 16 32 | *Saturnus* | à Regulo | 59 29 45 | 1225 03 | 59 29 36 |
| | | 35 | | rep. | 59 29 50 | 1225 03 | 59 29 36 |
| | | 40 | | à Virginis β | 32 17 25 | 772 71 | 32 16 37 |
| | | 44 | | rep. | 32 17 25 | 772 73 | 32 16 41 |
| *Sat. in Libra 24°½ Sept. Ret.* | ☽ Feb. 13 | 17 23 | *Saturnus* | à suprema in fronte Scorpij | 34 13 15 | 819 10 | 34 12 39 |
| | | 25 | | rep. | 34 13 15 | 819 11 | 34 12 40 |
| *Sat. in Libra 22°½ Sept. 2°½ Retrograd.* | ♄ Mar. 17 | 11 24 | *Saturnus* | à Regulo | 57 16 50 | 1371 65 | 57 16 10 |
| | | 26 | | rep. | 57 17 05 | 1371 72 | 57 16 18 |
| | | 30 | | à Virginis β | 30 04 05 | 719 82 | 30 04 03 |
| | | 32 | | rep. | 30 04 15 | 719 83 | 30 04 04 |
| | | 36 | | à Vindemiatrice | 21 34 30 | 516 46 | 21 34 12 |
| | | 39 | | rep. | 21 34 40 | 516 52 | 21 34 18 |
| | | 49 | | à lucida in Collo Serpentis | 33 03 55 | 791 43 | 33 03 27 |
| | | 52 | | rep. | 33 03 50 | 791 39 | 33 03 21 |
| *Sat. in Libra 21°½ Septent. 2°½ Retrogr.* | ♀ 30 | 11 34 | *Saturnus* | à Regulo | 56 18 10 | 1348 28 | 56 17 48 |
| | | 37 | | rep. | 56 18 15 | 1348 33 | 56 17 55 |
| | | 45 | | ab Arcturo | 28 13 00 | 675 59 | 28 13 18 |
| | | 47 | | rep. | 28 13 00 | 675 58 | 28 13 16 |
| | | 12 02 | *Regulus* | ab Arcturo | 59 46 25 | 1431 64 | 59 46 06 |
| | | 04 | | rep. | 59 46 25 | 1431 65 | 59 46 47 |
| | | 13 | *Saturnus* | à Vindemiatrice | 20 49 10 | 498 60 | 20 49 25 |
| | | 16 | | rep. | 20 49 10 | 498 63 | 20 49 30 |
| *Oppos. Solis, Sat. in Libra 21°½ Sept. Retrogr.* | ♄ 31 | 11 40 | *Saturnus* | à Regulo | 56 13 35 | 1346 57 | 56 13 31 |
| | | 43 | | rep. | 56 13 40 | 1346 60 | 56 13 36 |
| | | 53 | | ab Arcturo | 28 12 35 | 675 40 | 28 12 50 |
| | | 57 | | rep. | 28 12 35 | 675 42 | 28 12 53 |
| | | 12 02 | | à lucida in Collo Serpentis | 33 48 00 | 809 24 | 33 47 58 |
| | | 07 | | rep. | 33 48 05 | 809 26 | 33 48 01 |
| | | 14 | | à Vindemiatrice | 20 45 45 | 497 22 | 20 45 57 |
| | | 16 | | rep. | 20 45 50 | 497 25 | 20 46 01 |
| | | 21 | | à Regulo rep. | 56 13 45 | 1346 41 | 56 13 07 |
| | | 27 | | rep. | 56 13 40 | 1346 41 | 56 13 07 |
| | | | *Has & præcedentis vesperæ mensuras cepere minister olim meus Faber cum Staffordio & Reinboldo, me tùnc Derbiæ agente hæreditatis causa. Optimus enim Pater meus Stephanus 8 die hujus mensis ibidem obierat, Septuagenarius.* | | | | |
| *Sat. in Libra 21° Sept. ret.* | ♃ Apr. 5 | 12 55 | *Saturnus* | à lucida in Collo Serpentis | 34 04 15 | 815 75 | 34 04 16 |
| | | 57 | | rep. | 34 04 15 | 815 78 | 34 04 21 |
| | | 13 02 | | iter. | 34 04 30 | 815 86 | 34 04 33 |
| | | 14 | | à Vindemiatrice | 20 29 00 | 490 39 | 20 28 44 |
| | | 17 | | rep. | 20 28 55 | 490 34 | 20 28 36 |
| *Sat. in Libra 18° Sept. dir.* | ♀ Junij 22 | 10 10 | *Saturnus* | à Suprema in fronte ♏ii β | 40 25 10 | 967 59 | 40 24 16 |
| | | 14 | | rep. | 40 24 40 | 967 61 | 40 24 20 |
| *Sat. in Libra 18°½ Sept. dir.* | ☿ Julij 4 | 10 16 | *Saturnus* | ab Antare | 47 06 00 | 1127 73 | 47 05 37 |
| | | 19 | | rep. | 47 06 00 | 1127 75 | 47 05 40 |
| *Sat. in Scorp 5° Sept. dir.* | ☿ Dec. 19 | 18 38 | *Saturnus* | ab infima in Cingulo ♍ᵗˢ | 29 27 50 | 705 30 | 29 27 40 |
| | | 40 | | rep. | 29 27 55 | 705 34 | 29 27 46 |

| Anno Christi MDCLXXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | SATURNI DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Apr. 10 | 11 40 | *Saturnus* —— à Vindemiatrice —— | 30 57 50 | 741 04 | 30 57 24 | *Sat. in Scorp. 4°. 2° ½ Sept. Ret.* |
| | 42 | —— rep. | 30 57 50 | 741 06 | 30 57 27 | |
| | 47 | ab ima in Cing. Virginis γ | 28 03 30 | 671 63 | 28 03 24 | |
| | 48 | —— rep. | 28 03 35 | 671 74 | 28 03 40 | |
| | 54 | à Spica Virginis —— | 15 11 45 | 363 95 | 15 11 42 | |
| | 57 | —— rep. | 15 11 50 | 363 95 | 15 11 42 | |
| | 12 01 | à lucidâ in Collo Serpentis | 26 23 20 | 631 80 | 26 23 30 | |
| | 04 | —— rep. | 26 23 20 | 631 80 | 26 23 30 | |
| | | *Oppos. Solis & Saturni* | | | | |
| ☽ 29 | 10 16 | *Saturnus* —— ab infima in Cing. Virg. γ | 26 39 00 | 638 02 | 26 39 06 | *Sat. in Scorp. 2° ½ Sept. Ret.* |
| | 20 | —— rep. | 26 38 50 | 637 91 | 26 38 50 | |
| | 34 | à Spica Virginis —— | 13 51 40 | 331 86 | 13 51 25 | |
| | 36½ | —— rep. | 13 51 40 | 331 86 | 13 51 25 | |
| ☿ Maij 15 | 9 17 | *Saturnus* —— ab infima in Cing. Virg. γ | 25 37 40 | 613 52 | 25 37 38 | *Sat. in Scorp. 1° ½ Sept. Ret.* |
| | 20 | —— rep. | 25 37 30 | 613 45 | 25 37 27 | |
| | 25 | à Spica Virginis —— | 12 53 40 | 308 64 | 12 53 18 | |
| | 28 | —— rep. | 12 53 30 | 308 61 | 12 53 13 | |
| ☽ Jun. 10 | 9 48 | *Saturnus* —— à Spica Virginis —— | 11 53 50 | 284 91 | 11 53 54 | *Sat. in Scorp. 0½ Sept. Ret.* |
| | 50 | —— rep. | 11 54 00 | 284 96 | 11 54 01 | |

| | ANNO CHRISTI MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *JOVIS* DISTANTIÆ à FIXIS, | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| *Jupiter in Capricorni 14° Merid. Dir.* | ♃ Sept. 29 | 6 55 | *Jupiter* ——— | ab Aquilæ lucida ——— | | 769 66 | 32 09 01 |
| *Jupiter in Capricorni 20° Merid. Dir.* | ☿ Nov. 8 | 5 21 | *Jupiter* ——— | à Markab Pegasi ——— | | 1461 00 | 60 59 39 |
| | | 30 | | ——— rep. | | 1460 85 | 60 59 16 |
| | MDCLXXVII. | | | | | | |
| *Jupiter in Aquarii 27½ circam primam station. Merid. Dir.* | ☿ Jun. 6 | 14 18 | *Jupiter* ——— | à Markab Pegasi ——— | | 701 78 | 29 18 54 |
| | | 19½ | | ——— rep. | | 701 87 | 29 19 07 |
| | | 26 | | ab Hum. præced. Aquarii :: | | 308 27 | 12 52 28 |
| | | 29 | | ——— rep. | | 308 22 | 12 52 21 |
| | | 35½ | *Markab Pegasi* – | ab Humero. sequent. Aquarii | | 743 52 | 31 03 37 |
| *Jupiter in Aquarii 24° Ret. Merid.* | ♄ Julij 21 | 10 50 | *Jupiter* ——— | ab inferiore in Cornu ♑$^{i}$ β | | 608 88 | 25 25 58 |
| *Jupiter in Aquarii 24° Merid. Ret.* | ☽ 23 | 11 57 | *Jupiter* ——— | ab inferiore in Cornu ♑$^{i}$ β | | 603 08 | 25 11 27 |
| | | | | ——— rep. | | 603 10 | 25 11 30 |
| | | 12 03 | | ab Aquilæ lucidâ ——— | | 953 63 | 39 49 22 |
| | | 10 | | à Markab Pegasi ——— | | 764 54 | 31 56 19 |
| | | | | ——— rep. | | 764 64 | 31 56 34 |
| | | | | ——— iterùm. | | 764 60 | 31 56 28 |
| | | 21 | | ab inferiore in Cornu ♑$^{i}$ β | | 603 00 | 25 11 15 |
| *Jupiter in Aquarii 22°, 2½ dies post oppos. Sol. Ret. Mer.* | ♂ Aug. 7 | 9 58 | *Jupiter* ——— | ab inferiore in Cornu ♑$^{i}$ β | | 558 40 | 23 19 31 |
| | | 10 05 | | à præcedente in Dorso ♑$^{i}$ θ | | 307 55 | 12 50 39 |
| | | 08 | | ——— rep. | | 307 51 | 12 50 33 |
| | | 14 | | à succed. ab effusione Aquæ Aquarii ——— } λ | | 357 94 | 14 56 48 |
| | | 19 | | ——— rep. | | 357 99 | 14 56 55 |
| | | 26 | *Quæ in dorso Capricorni θ* } | & in aqua Aquarii ——— λ | | 663 96 | 27 44 10 |
| | | | | ——— melius rep. | | 664 08 | 27 44 28 |
| | | 38 | *Jupiter* ——— | ab inferiore in Cornu ♑$^{i}$ β | | 558 30 | 23 19 16 |
| | | 45 | | ab Aquilæ lucida ——— | | 926 37 | 38 41 01 |
| | | 48 | | ——— rep. | | 926 39 | 38 41 04 |
| | | 59 | | à Markab ——— | | 800 30 | 33 25 40 |
| | | 11 02 | | ——— rep. | | 800 40 | 33 25 55 |
| | | | | *A 24ª Julii ad hanc usque noctem nulla nobis serenitas affulserit: intereà celebrata Oppositio Solis & Planetæ, 4° Augusti quem in eodem fere Eclipticæ loco Acronicum ab Aquilâ Markab & inferiore in Cornu Capricorni Soli oppositum observaverat Anno 1594 Tycho Brahe: Conferantur observationes, inde innotescet, an secularibus inequalitatibus subjiciantur, hujus Planetæ motus, nec ne.* | | | |
| *Jupiter in Aquarii 21° Merid. Ret.* | ♂ 14 | 9 31 | *Jupiter* ——— | ab anteriore in Dorso ♑$^{i}$ θ | | 285 92 | 11 56 31 |
| | | 35 | | ——— rep. | | 285 95 | 11 56 36 |
| | | 40½ | | à succedente in aqua ♒$^{ii}$ λ | | 379 66 | 15 51 06 |
| *Jupiter in Aquarii 21° Merid. Ret.* | ☿ 15 | 9 01 | *Jupiter* ——— | à succedente in aqua ♒$^{ii}$ λ | | 382 15 | 51 58 15 |
| | | 04 | | ——— rep. | | 382 54 | 15 58 19 |
| | | 07 | *Succedens in aqua Aquarii. λ* ——— } | & quæ, in superiore Cauda ♑$^{i}$ Australis, ——— } μ | | 377 93 | 15 46 42 |

| Anno Christi MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | *JOVIS.* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Aug. 15 | | *Deinde Micrometro breviore Tubo.* | | | | |
| | 10 05 | *Jupiter* ——— & in superiore Cauda ♑ⁱ μ | | 4087 | = 33 36 | |
| | 18 | ——————— rep. | | 4070 | = 33 28 | |
| | 42½ | ab Humero Aquarii præced. | | 241 32 | 10 04 49 | |
| | 57 | *Præcedens Humerus Aquarii, β,* ——— & in aqua ab effus. succed. | | 484 49 | 20 13 48 | |
| | 11 07 | & in Dorso ♑ⁱ anterior, θ | | 316 90 | 13 14 00 | |
| | 14½ | *Jupiter* ——— & succedens in aqua ♒ⁱⁱ λ | | 382 72 | 15 58 46 | |
| ♃ 20 | 8 24¾ | *Jupiter* ——— ab Australi in superiore Cauda Capricorni, *Tubo breviore & Micrometro* | | 6870 | = 56 29 | |
| | 35½ | Differentia Altitudinum Centri Jovis & dictæ Fixæ ——— | | 3580 | = 29 26 | |
| | | *Linea ducta per Centrum Jovis & Satellites hâc vice, horizonti fuerit quam proximè parallela; ergo Altitudinum differentia æqualis distantiæ vel latitudini Fixæ à linea Satellitum: Jupiter erat revera Australior & in antecedentia dictæ Fixæ.* | | | | |
| ♀ 31 | 9 51 | *Jupiter* ——— ab inferiore in Cornu ♑ⁱ β | | 493 01 | 20 35 09 | *Jupiter in Aquarii 19° Merid. Ret.* |
| | 10 08 | à sequente Humero ♒ⁱⁱ α | | 363 86 | 15 11 30 | |
| | | *Ad Austrum & in antecedentia Planetæ tres apparuere fixæ, è quarum proxima & Australissima, Tubo longiore & Micrometro.* | | | | |
| | 10 33 | *Jovis* ——— capta distantia ——— | | 6275 | = 31 18 | |
| | | *Harum vide distantias ab Humero sequente Capricorni, & ejusdem inferiore in Cornu sub Constellatione Capricorni eadem nocte Observatas.* | | | | |
| ♃ Nov. 1 | 7 21 | *Jupiter* ——— à succedente ab effusione in aqua ♒ⁱⁱ ——— λ | | 431 32 | 18 00 27 | *Jupiter in Aquarii 19° Merid. Directus in Quad. Sol.* |
| | 29½ | ab inferiore in Dorso ♑ⁱ θ | | 233 75 | 09 45 55 | |
| | 39½ | à præcedente Humer. ♒ⁱⁱ β | | 232 56 | 09 42 57 | |
| ♀ 2 | 6 04¼ | Distantia limbi Jovis proximi ab eadem fixa, è qua fuerit observatus Aug. 31. ultimo, 10ʰ 33′ Tubo longiore & Micrometro iter. | | 4294 | = 21 06 | |
| | | *Erat Planeta in consequentia Fixæ, & paululum humilior.* | | | | |
| ☉ 18 | 5 55 | *Jupiter* ——— à fixa luc. revera sup. ipsum | | 5335 | = 26 37 | |
| ☿ Dec. 26 | 6 05½ | *Jupiter* ——— à ♀ᵉ, tunc in ejus conseq. | | 55 36 | 02 18 42 | |
| MDCLXXVIII. | | | | | | |
| ♂ Junij 11 | 13 48 | *Jupiter* ——— à lucida Arietis ——— | 32 35 45 | 780 42 | 32 36 00 | *Jupiter in Arietis 2°½ Merid. Dir.* |
| | 53 | ——————— rep. | 32 36 05 | 780 54 | 32 36 18 | |
| | 56 | ——————— iterùm. | 32 35 55 | 780 47 | 32 36 06 | |

| | Anno Christi MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | JOVIS DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♂ Junij 11 | 14 02 | *Jupiter* —— à Markab Pegasi —— | 24 30 00 | 586 66 | 24 30 20 |
| | | 03 | —— rep. | 24 30 20 | 586 74 | 24 30 32 |
| | | 05 | —— iterùm. | 24 30 20 | 586 75 | 24 30 33 |
| *Jupiter in Arietis 3° ½ Merid. Ret.* | ♀ Julij 31 | 11 09 | *Jupiter* —— à lucida Arietis —— | | 759 31 | 31 43 12 |
| | | 16 | à prima Arietis —— | | 637 38 | 26 37 25 |
| | | 22 | —— rep. | | 637 66 | 26 38 07 |
| *Jupiter in Arietis 10° Merid. Ret.* | ♂ Aug. 27 | 9 12 | *Jupiter* —— à Sequente in Cauda ♑i — | 41 50 30 | 1002 23 | 41 51 07 |
| | | 16 | à præced. in eadem Cauda | 43 36 20 | 1044 11 | 43 36 03 |
| | | 19 | à præced. Humero Aquarii | 43 05 30 | 1032 01 | 43 05 45 |
| | | 26 | à sequente in Dorso ♑i ι | 47 42 00 | 1142 34 | 47 42 15 |
| | | 38 | à lucida Arietis —— α | 34 08 05 | 817 24 | 34 08 00 |
| | | 42 | à secunda Arietis —— β | 30 12 45 | 723 43 | 30 13 06 |
| | | 48 | à prima Arietis —— γ | 29 04 25 | 646 15 | 29 04 46 |
| | | | *Observavit* D. Halleius *cum ministro meo, me tunc ægroto.* | | | |
| *Jupiter in Arietis 0° Merid. Ret.* | ♂ Sept. 3 | 8 12 | *Jupiter* —— à lucida Arietis —— | 34 57 45 | 837 18 | 34 57 50 |
| | | 36 | — repetita per nubes, dubia | 34 57 45 | 837 25 | 34 58 00 |
| | | 9 19 | à Scheat Pegasi —— | 33 06 55 | 792 70 | 33 06 39 |
| | | 23½ | —— rep. | 33 06 55 | 792 68 | 33 06 36 |
| | | 42 | ab anteriore in Dorso ♑i θ | 50 39 45 | 1213 28 | 50 39 00 |
| | | 50 | —— rep. | 50 39 25 | 1213 16 | 50 38 42 |
| | | 10 12 | à suc. ab effus. aquæ ♒ii λ | 22 57 40 | 549 63 | 22 57 33 |
| | | 16½ | —— rep. | 22 57 45 | 549 63 | 22 57 33 |
| | | | Faber *cepit cum famulo alio, me tunc ægrotante, & valetudinis recuperandæ causa, iter in patriam adornante.* | | | |
| *Jupiter in Piscium 29° Merid. Ret. 2 dies ante Oppos. Sol.* | ☽ 9 | 10 09 | *upiter* —— à lucida in cauda Capricorni | | 961 66 | 40 09 25 |
| | | | —— rep. | | 961 61 | 40 09 18 |
| | | | —— iter. | 40 09 00 | 961 63 | 40 09 21 |
| | | 24 | ab Ore Pegasi —— bis. | 39 04 50 | 935 90 | 39 04 48 |
| | | 30 | —— rep. | 39 04 30 | 935 81 | 39 04 35 |
| | | 34 | à præced. Hum. Aquarii – | 41 27 05 | 992 72 | 41 27 16 |
| | | 41 | —— rep. | 41 27 20 | 992 81 | 41 27 30 |
| | | 50 | à lucida Arietis —— | 35 43 50 | 855 58 | 35 43 57 |
| | | 11 09 | —— rep. | 35 43 55 | 855 61 | 35 44 01 |
| | | 24 | à secunda Arietis —— | 31 49 15 | 761 98 | 31 49 47 |
| | | 36 | à prima Arietis —— | 30 41 45 | 735 11 | 30 42 21 |
| | | 47 | à nodo lini Piscium —— | 26 35 45 | 636 72 | 26 35 46 |
| | | 59 | à lucida mandibulæ Ceti – | 41 41 20 | 998 70 | 41 42 16 |
| *Jupiter in Piscium 29° Merid. Ret. 3 dies post Oppos. Sol.* | ♄ 14 | 9 58 | *Jupiter* —— ab ore Pegasi —— | 38 33 35 | 923 53 | 38 33 54 |
| | | 10 07½ | ab Humero Aquarii præced. | 40 48 25 | 977 44 | 40 48 58 |
| | | 18½ | à lucida Arietis —— | 36 21 30 | 870 60 | 36 21 30 |
| | | 19 | à lucida Plejadum —— | 57 11 20 | 1369 67 | 57 11 15 |
| | | | *Has, ut & præcedentes, die* ☽ *9 hujus mensis, observationes habuere* D. Halleius & Perkinseus, *me rure absente.* | | | |
| *Jupiter in Piscium 25° Merid. Ret.* | ♂ Oct. 15 | 8 08 | *Jupiter* —— à lucida Arietis —— | 39 38 20 | 949 49 | 39 38 52 |
| | | 14½ | —— | 39 38 20 | 949 52 | 39 38 57 |
| | | 24 | à Markab Pegasi —— | 21 48 40 | 522 25 | 21 48 45 |
| | | | *Lucida Arietis* & Markab Pegasi —— | 43 37 30 | 1044 55 | 43 37 10 |

# *JOVIS* DISTANTIÆ à FIXIS.

| ANNO CHRISTI MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | *JOVIS* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♀ Oct. 18 | 8 55 | *Jupiter* —— à lucida Arietis —— | 39 51 35 | 954 65 | 39 51 48 | |
| | 9 00 | à Markab Pegasi —— | 21 44 25 | 520 54 | 21 44 21 | |
| ♃ 31 | 6 12½ | *Jupiter* —— à lucida Arietis —— | 40 27 35 | 968 90 | 40 27 33 | *Jupiter in Piscium 24° Merid. Ret.* |
| | 20½ | à succed. ab effus. aquæ ♒ λ | 17 08 25 | 410 75 | 17 08 54 | |
| | 25½ | à Markab Pegasi —— | 21 31 55 | 515 53 | 21 31 48 | |
| ☿ Nov. 6 | 6 39 | *Jupiter* —— à succed. ab effus. aquæ ♒ λ | 17 02 20 | 408 10 | 17 02 15 | *Jupiter in Piscium 21° juxta stationem secundam Merid.* |
| | 43 | —— rep. | 17 02 20 | 408 10 | 17 02 15 | |
| MDCLXXIX. | | | | | | |
| ♂ Jan. 14 | 6 58 | *Jupiter* —— à lucida Arietis —— | 33 57 25 | 813 12 | 33 57 42 | |
| | 7 05½ | à Markab Pegasi —— | 23 42 55 | 567 75 | 23 42 57 | |
| ♂ Feb. 11 | 3 07 | *Jupiter* —— à limbo Solis proximo —— | 33 12 25 | 795 02 | 33 12 27 | |
| | 15½ | —— rep. | 33 11 50 | 794 79 | 33 11 52 | |
| | 6 00 | à lucida Arietis —— | 28 36 15 | 684 98 | 28 36 48 | |
| | 30 | —— rep. | 28 35 30 | 684 47 | 28 35 45 | |
| ☿ Junij 11 vel ♃ 12 *mane.* | 14 00 | *Jupiter* —— ab austr. in occip. ♓ˢ Aust. γ | 47 32 30 | 1138 40 | 47 32 20 | *Jupiter in Tauri 4° Merid. Dir.* |
| | 05 | —— rep. | 47 32 55 | 1138 52 | 47 32 39 | |
| | 19 13 | à limbo Solis remotiore —— | 57 07 05 | 1368 07 | 57 07 15 | |
| | 16 | à limbo Solis proximo —— | 56 36 15 | 1355 61 | 56 36 12 | |
| ☉ Julij 27 vel ☽ 28 *mane.* | 14 15 | *Jupiter* —— ab extrema Alæ Pegasi —— | 37 37 10 | 900 73 | 37 36 53 | *Jupiter in Tauri 10° Merid. Dir.* |
| | 19 | —— rep. | 37 37 10 | 900 70 | 37 36 48 | |
| | 25 | à media & lucida Plejadum | 16 27 25 | 394 17 | 16 27 22 | |
| | 27 | —— rep. | 16 27 35 | 394 24 | 16 27 33 | |
| | 32 | à seq. trium in Lino Piscium Austrino – } ζ | 24 33 15 | 587 84 | 24 33 16 | |
| | 35 | —— rep. | 24 33 10 | 587 80 | 24 33 10 | |
| | 50 | à lucida in Mandibula Ceti | 11 19 20 | 271 16 | 11 19 32 | |
| | 54 | —— rep. | 11 19 20 | 271 18 | 11 19 35 | |
| ☉ Aug. 10 vel ☽ 11 *mane.* | 14 39 | *Jupiter* —— ab extrema Alæ Pegasi —— | 38 18 40 | 917 49 | 38 18 46 | *Jupiter in Tauri 11° Merid. Dir.* |
| | 42½ | —— rep. | 38 18 40 | 917 47 | 38 18 43 | |
| | 51½ | ab inferiore Cornu Tauri —— | 39 37 15 | 948 94 | 39 37 30 | |
| | 54 | —— rep. | 39 37 00 | 948 45 | 39 37 15 | |
| | | *Hac vice 14ª Arietis, quæ Bayero σ, erat in recta linea cum Satellitibus Jovis, tantundem ab extimo in antecedentia distans, quantum ipse abfuit ab intimo ab eodem latere.* | | | | |
| | 57 | *Cornu Tauri inferius* – } & Arietis —— σ | 39 49 00 | 953 65 | 39 49 20 | |
| | 15 08 | *Jupiter* —— & Medusæ Algol —— | 26 02 15 | 623 50 | 26 02 40 | |
| | 18½ | Pes lucid. Androm. Alamech | 29 06 40 | 696 94 | 29 06 46 | |
| ♀ 15 vel ♄ 16 *mane* | 14 34 | *Jupiter* —— à Cornu Tauri superiore —— | 37 52 15 | 906 77 | 37 51 54 | |
| | 36 | —— rep. | 37 52 15 | 906 78 | 37 51 56 | |
| | 42 | à lucido pede Andromedæ – | 29 08 05 | 697 58 | 29 08 22 | *Jupiter in Tauri 11° Merid. Dir.* |
| | 45½ | —— rep. | 29 08 05 | 697 56 | 29 08 06 | |
| | 54 | *Cornu Tauri superius* – } & Pes Andromedæ lucid. Alam. | 42 43 30 | 1023 16 | 42 43 33 | |
| ♃ 21 vel ♀ 22 *mane* | 15 40 | *Jupiter* —— à Cornu Tauri superiore —— | 37 50 55 | 906 23 | 37 50 33 | *Jupiter in Tauri 11° Merid. juxta primam stationem.* |
| | 43½ | —— rep. | 37 50 55 | 906 25 | 37 50 36 | |

| | Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | *Jovis* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♃ Aug. 21 | 15 46 | *Cornu* ♉ ^i *super.* & Arietis —— σ | 38 09 45 | 913 95 | 38 09 54 |
| | *vel* ♀ 22 | 57½ | *Jupiter* —— ab Alamech Andromedæ — | 29 09 20 | 697 98 | 29 09 22 |
| | *mane.* | 16 00 | —— rep. | 29 09 20 | 697 98 | 29 09 22 |
| | | 02 | *Lucidus Pes Andromedæ Alamech* — } & Arietis —— σ | 29 06 25 | 696 79 | 29 06 24 |
| *Jupiter in Tauri 10° ½ Merid. Dir.* | ☉ 31 *vel* ☽ | 15 57 | *Jupiter* —— à Cornu Tauri superiore — | 38 04 35 | 911 91 | 38 04 47 |
| | Sep. 1 *mane* | 16 22 | à lucido pede Andromedæ. | 29 11 00 | 698 61 | 29 10 57 |
| | ♄ Oct. 18 | 7 01 | *Jupiter* —— à media & lucida Plejadum | 20 28 35 | 490 41 | 20 28 37 |
| | | 31 | —— rep. | 20 28 55 | 490 57 | 20 29 11 |
| | | 34 | à luc. in pede præc. Persei ζ | 26 04 40 | 624 38 | 26 04 50 |
| | | 37¼ | —— rep. | 26 04 40 | 624 39 | 26 04 51 |
| | | | *Planeta adhùc erat paulo altior ac Pleias, humilior quam Pes Persei.* | | | |
| | | 43⅓ | *Jupiter* —— à secunda Arietis —— | 11 43 15 | 280 66 | 11 43 20 |
| | | 46½ | —— rep. | 11 43 15 | 280 65 | 11 43 18 |
| | | 50¼ | à lucida Arietis —— | 11 41 10 | 279 80 | 11 41 10 |
| | | 53 | —— rep. | 11 41 10 | 279 78 | 11 41 07 |
| | | | *Planeta erat in verticali per medias Fixas transeunte.* | | | |
| | | 57 | *Jupiter* —— suc. ab effus. aquæ ♒ii λ | 58 39 15 | 1404 87 | 58 39 12 |
| *Jupiter in Tauri 5° ¼ Merid. in Oppos. Sol.* | | 8 00⅓ | —— rep. | 58 39 25 | 1404 92 | 58 39 20 |
| | | | *Hæc propterea capta distantia quippe Jupiter Acronicus ab eadem Fixa fuerit observatus Anno* 1677. *Aug.* 7°, 10. *p. m.* | | | |
| | | 06¼ | *Lucida Arietis* à succed. ab effus. aquæ ♒ii λ | 56 43 55 | 1358 85 | 56 44 13 |
| | | 11 | à pede præced. Persei — ζ | 25 03 25 | 599 90 | 25 03 28 |
| | | 15½ | *Secunda Arietis* ab eodem pede Persei — ζ | 28 51 00 | 690 62 | 28 50 55 |
| | | 10 38 | *Jupiter* —— ab extrema Alæ Pegasi —— | 33 52 00 | 810 85 | 33 52 00 |
| | | 40¼ | —— rep. | | 810 87 | 33 52 03 |
| | | 44½ | a Palilicio —— | 29 46 40 | 712 90 | 29 46 44 |
| | | 46¼ | —— rep. | 29 46 45 | 712 95 | 29 46 51 |
| | | | *Duas has posteriores distantias ab Ala Pegasi & Aldebara accepi, quippe, iisdem Fixis usus fuerit Prænobilis Tycho in observationibus Jovis Acronici, Mense Octobri Anni* 1596. *loco Eclipticæ haud multùm remoto.* | | | |
| | ☉ 19 *vel* | 13 44 | *Jupiter* —— à Palilicio —— | 29 56 00 | 716 73 | 29 56 18 |
| | ☽ 20 *mane* | 47½ | —— rep. | 29 56 00 | 716 76 | 29 56 21 |
| | | 51 | à Calce Castoris —— | 55 13 00 | 1322 52 | 55 13 24 |
| *Jupiter in Tauri 5° ½ Merid. Ret.* | | 56½ | —— rep. | 55 13 10 | 1322 56 | 55 13 30 |
| | | 14 00¼ | *Lucida Arietis,* à Calce Castoris —— | 58 21 20 | 1397 81 | 58 21 33 |
| | | 07½ | *Palilicium* —— à Calce Castoris —— | 25 52 30 | 619 69 | 25 53 06 |
| | | 12¼ | *Jupiter* —— à lucida Arietis —— | 11 39 15 | 279 10 | 11 39 21 |
| | | 15 | —— rep. | 11 39 15 | 279 09 | 11 39 20 |
| *Jupiter in Tauri 5° ½ Merid. Ret.* | ☽ 20 | 6 39 | *Jupiter* —— à suc. ab effus. aquæ ♒ii λ | 58 23 25 | 1398 59 | 58 23 30 |
| | | 46 | —— rep. | 58 23 25 | 1398 48 | 58 23 13 |
| | | 7 39 | —— iter. | 58 23 25 | 1398 57 | 58 23 27 |
| | ☿ 22 | 7 35 | *Jupiter* —— à suc. ab effus. aquæ ♒ii λ | 58 07 10 | 1392 08 | 58 07 13 |
| *Jupiter in Tauri 5° Merid. Ret.* | | 40 | —— accuratiùs repet. | 58 06 55 | 1392 00 | 58 07 01 |
| | | 9 34 | à Capite Medusæ —— | 28 45 10 | 688 48 | 28 45 34 |
| | | 40 | ab extrema Alæ Pegasi —— | 33 23 20 | 799 19 | 33 22 51 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | JOVIS DISTANTIÆ à FIXIS. | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♀ Oct. 24 | 8 56 | *Jupiter* | à lucida Plejadum | 21 16 55 | 509 56 | 21 16 52 | *Jupiter in Tauri 5° Merid. Retrogr.* |
| | 9 04 | | à secunda Arietis | 11 18 00 | 270 61 | 11 18 06 | |
| ♂ 28 | 9 22 | *Jupiter* | à lucida Plejadum | 21 47 25 | 521 77 | 21 47 32 | *Jupiter in Tauri 4° ½ Merid. Retrogr.* |
| | | | rep. | | 521 89 | 21 47 50 | |
| | | | iter. | 21 47 35 | 521 85 | 21 47 44 | |
| ♄ Nov. 1 | 8 15 | *Jupiter* | à lucida Plejadum | 22 17 10 | 533 51 | 22 17 02 | *Jupiter in Tauri 4° Merid. Retrogr.* |
| | 19½ | | rep. | 22 17 00 | 533 48 | 22 16 57 | |
| | 26 | | à secunda Arietis — bis. | 10 49 55 | 259 24 | 10 49 39 | |
| ♂ 11 | 8 54 | *Jupiter* | ab Oculo Boreo Tauri | 31 15 50 | 748 38 | 31 15 46 | *Jupiter in Tauri 3° Merid. Retrogr.* |
| ☽ 17 | 10 37 | *Jupiter* | à Palilicio | 33 23 00 | 799 21 | 33 22 54 | *Jupiter in Tauri 2° Merid. Retrogr.* |
| | 40 | | rep. | 33 22 55 | 799 18 | 33 22 49 | |
| | 45 | | à lucidâ Arietis | 11 22 10 | 272 17 | 11 22 01 | |
| | 47 | | rep. | 11 22 20 | 272 22 | 11 22 09 | |
| | 51 | | iter. | 11 22 20 | 272 23 | 11 22 10 | |
| | 11 34 | *Lucida Arietis* | à Palilicio | 35 32 05 | 850 81 | 35 31 57 | |
| ♂ Dec. 2 | 9 30 | *Jupiter* | à Palilicio | 34 24 35 | 823 84 | 34 24 30 | *Jupiter in Tauri 1° Merid. Retrogr.* |
| | 33 | | rep. | 34 24 35 | 823 87 | 34 24 34 | |
| | 40 | | à secunda Arietis | 09 53 40 | 236 94 | 09 53 51 | |
| | 42½ | | rep. | 09 53 45 | 236 96 | 09 53 54 | |
| ♂ 9 | 8 18 | *Jupiter* | à Palilicio | 34 38 20 | 829 27 | 34 38 04 | *Jupiter in Tauri 1° Merid. Retrogr.* |
| ♀ 12 | 6 37 | *Jupiter* | à lucida Plejadum — *bis* | 25 14 15 | 604 39 | 25 14 44 | *Jupiter in Tauri 1° juxta Stat.* |
| ♄ 20 | 8 11 | *Jupiter* | à Palilicio | 34 40 20 | 830 18 | 34 40 21 | *Jupiter in Tauri 1° Merid. Directus.* |
| MDCLXXX. | | | | | | | |
| ♄ Jan. 3 | 6 33 | *Jupiter* | ab extrema Alæ Pegasi | 29 51 30 | 714 96 | 29 51 52 | *Jupiter in Tauri 1° ½ Merid. Directus.* |
| ♄ Feb. 7 | 6 28 | *Jupiter* | à Palilicio | 30 13 45 | 723 91 | 30 14 21 | *Jupiter in Tauri 5° Merid. Directus.* |
| ♂ 17 | 6 47 | *Jupiter* | à lucido Pede Gemini | 57 42 45 | 1382 43 | 57 43 07 | *Jupiter in Tauri 7° Merid. Directus.* |
| ♀ 18 | 7 14 | *Jupiter* | à lucido Pede Gemini | 57 10 40 | 1369 55 | 57 10 55 | *Jupiter in Tauri 7° Merid. Directus.* |
| | 19 | | rep. | 57 10 40 | 1369 57 | 57 10 58 | |
| | 23 | | ab Humero præced. Orionis | 41 27 15 | 992 96 | 41 27 54 | |
| | 24 | | rep. | 41 27 15 | 992 94 | 41 27 51 | |
| ♃ Julij 8 *vel* ♀ 9 *mane.* | 15 13½ | *Jupiter* | à lucida Arietis | 36 23 00 | 871 17 | 36 22 52 | *Jupiter in Geminorum 8° Merid. Dir.* |
| | 15½ | | rep. | 36 23 10 | 871 20 | 36 22 57 | |
| | 32 | | à Venere | 35 27 35 | 848 98 | 35 27 21 | |
| ♃ 22 *vel* ♀ 23 *mane.* | 14 18 | *Jupiter* | à clara in Lino Bor. ♓ium *n* | 48 36 20 | 1164 04 | 48 36 37 | *Jupiter in Gemin. 10° ½ Merid. Dir.* |
| | 23 | | rep. | 48 36 25 | 1164 05 | 48 36 39 | |
| ☿ Aug. 18 | 13 02 | *Jupiter* | à seq. Humero Aurigæ β | 24 39 05 | 590 53 | 24 39 59 | *Jupiter in Gemin. 14° ½ Merid. Dir.* |
| | 19 | | à lucidâ Arietis | 42 23 55 | 1015 40 | 42 24 06 | |
| | 21 | | rep. | 42 24 05 | 1015 48 | 42 24 18 | |

| | Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | JOVIS DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Jupiter in Geminorum 16° Merid. Direct.* | ☉ Sept. 5 | 14 53 | *Jupiter* —— à primâ Arietis —— | 47 46 35 | 1144 36 | 47 47 14 |
| | *vel* ☽ 6 | 56 | —— rep. | 47 46 30 | 1144 38 | 47 47 17 |
| | *mane.* | 15 02 | *Fixa juxta Planetam*, à lucida Arietis —— | 44 05 40 | 1056 21 | 44 06 21 |
| | | 06 | *Jupiter* —— à lucida Arietis —— | 43 53 30 | 1051 16 | 43 53 42 |
| *Jupiter in Geminorum 16°½ Merid. Direct.* | ♃ 16 | 14 25 | *Jupiter* —— à lucida Arietis —— | 44 18 55 | 1061 59 | 44 19 50 |
| | *vel* ♀ 17 | 27 | —— rep. | 44 18 55 | 1061 58 | 44 19 47 |
| | *mane.* | 30½ | ab Oculo Boreo Tauri —— | 12 33 30 | 300 83 | 12 33 45 |
| | | 32 | —— rep. | 12 33 35 | 300 83 | 12 33 45 |
| | | 39 | à Pede superiore Aurigæ —— | 11 56 15 | 285 85 | 11 56 15 |
| | | | *Vide Fixarum distantias infra, Oct.* 11. | | | |
| *Jupiter in Gemin. 16°½ Stationarius.* | ♄ 25 | 15 53 | *Jupiter* —— à Calce Castoris —— | 14 20 30 | 343 47 | 14 20 28 |
| | *vel* ☉ 26 *mane.* | | | | | |
| *Jupiter in Gemin. 16°½ ad Stat. primam.* | ☉ 26 | 15 28 | *Jupiter* —— ab Oculo Boreo Tauri —— | 12 37 15 | 302 43 | 12 37 45 |
| | *vel* ☽ 27 *mane.* | 31 | —— rep. | 12 37 20 | 302 49 | 12 37 54 |
| *Jupiter in Geminorum 16° Merid. Retrog.* | ☽ Oct. 11 | 15 58 | *Jupiter* —— à Palilicio —— | 11 37 15 | 278 53 | 11 37 55 |
| | *vel* ♂ 12 | 16 00½ | —— rep. | 11 37 10 | 278 49 | 11 37 50 |
| | *mane.* | 06 | *Pes Aurigæ superior*, ab Oculo Boreo Tauri | 15 21 15 | 368 08 | 15 22 03 |
| | | 12 | *Pes Aurigæ Boreus*, à Palilicio —— | 17 18 10 | 414 80 | 17 19 00 |
| | | 21½ | *Jupiter* —— à Pede superiore Aurigæ — | 11 47 20 | 282 31 | 11 47 24 |
| | | 24 | —— rep. | 11 47 20 | 282 30 | 11 47 22 |
| *Jupiter in Geminorum 15° Merid. Retrog.* | ☽ 25 | 16 48 | *Jupiter* —— à Pede superiore Aurigæ — | 11 28 35 | 274 82 | 11 28 39 |
| | *vel* ♂ 26 | 51 | —— rep. | 11 28 35 | 274 77 | 11 28 32 |
| | *mane.* | 58 | à Calce Castoris —— | 16 00 55 | 383 83 | 16 01 28 |
| | | 17 00 | —— rep. | 16 00 55 | 383 84 | 16 01 30 |
| | | 06 | *Calx Castoris*, ab Aurigæ Pede superiore — | 20 12 10 | 483 99 | 20 12 36 |
| *Jupiter in Geminorum 13°½ Merid. Retrog.* | ☉ Nov. 7 | 14 11 | *Jupiter* —— à Pede superiore Aurigæ — | 11 13 00 | 268 52 | 11 12 52 |
| | *vel* ☽ 8 | 13 | —— rep. | 11 13 05 | 268 54 | 11 12 55 |
| | *mane.* | 21 | à Castore —— | 34 02 20 | 815 02 | 34 02 27 |
| | | 22 | —— rep. | 34 02 20 | 815 08 | 34 02 36 |
| | | 25 | *Castor* —— à Pede superiore Aurigæ — | 33 03 25 | 791 36 | 33 03 16 |
| | | 31 | *Jupiter* —— à Calce Castoris —— | 17 29 00 | 419 02 | 17 29 36 |
| | | 33 | —— rep. | 17 29 10 | 419 09 | 17 29 46 |
| | ♄ 13 | 11 00 | *Jupiter* —— à lucida Arietis —— | 40 37 00 | 972 87 | 40 37 31 |
| | | 12 | —— rep. | 40 37 15 | 972 97 | 40 37 46 |
| | | 15 | —— iter. | 40 37 10 | 972 98 | 40 37 48 |
| | | 21 | *Lucida Arietis* & Pes superior Aurigæ — | 38 20 25 | 918 42 | 38 21 03 |
| | | 28 | *Jupiter* —— ab Aurigæ Pede superiore — | 11 08 50 | 267 00 | 11 09 05 |
| *Jupiter Acronicus vel in Oppos. Solis in 11°½ Geminorum Merid. Retrog.* | ☽ 22 | 7 43 | *Jupiter* —— à Palilicio —— | 07 43 30 | 184 81 | 07 43 22 |
| | | 46 | —— rep. | 07 43 35 | 184 83 | 07 43 25 |
| | | 48 | —— iter. | 07 43 35 | 184 82 | 07 43 24 |
| | | 50½ | à Boreali Cornu Tauri —— | 09 03 25 | 216 83 | 09 03 28 |
| | | 54 | —— rep. | 09 03 35 | 216 87 | 09 03 34 |
| | | 8 01 | ab Algol Medusæ —— | 30 01 05 | 718 62 | 30 01 03 |
| | | 03 | —— rep. | 30 01 00 | 718 57 | 30 00 56 |
| | | 06 | *Cornu Tauri Bor.* ab Algol —— | 30 39 45 | 734 08 | 30 39 54 |
| | | 10 | *Palilicium* —— ab Algol —— | 30 53 35 | 739 65 | 30 53 54 |

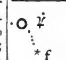
| Anno Christi MDCLXXX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | JOVIS DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° | ′ | ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. | Cent. | ° | ′ | ″ | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☽ Nov. 22 | 8 16 | *Jupiter* —— à lucidâ Plejadum | 16 | 32 | 05 | 396 | 10 | 16 | 32 | 12 | |
| | 19 | à Palilicio —— | 07 | 43 | 10 | 184 | 60 | 07 | 42 | 48 | |
| | 21 | —— rep. | 07 | 43 | 15 | | | | | | |
| | 24 | à Cornu Tauri Boreo —— | 09 | 03 | 40 | 216 | 91 | 09 | 03 | 44 | |
| | 28 | ab Humero ſeq. Aurigæ —— | 26 | 05 | 10 | 624 | 80 | 26 | 05 | 55 | |
| | 31 | *Hum. Aurigæ ſeq.* à lucida Plejadum —— | 33 | 52 | 35 | 811 | 05 | 33 | 52 | 30 | *Jupiter in Gem. 11° Ret. Merid.* |
| | 9 33 | *Jupiter* —— à Palilicio —— | 07 | 43 | 10 | 184 | 71 | 07 | 43 | 05 | |
| | 35 | —— rep. | 07 | 43 | 00 | 184 | 67 | 07 | 42 | 59 | |
| | 37 | à Cornu Tauri Boreo —— | 09 | 03 | 30 | 216 | 97 | 09 | 03 | 52 | |
| | 40 | *Palilicium* —— à Cornu Tauri Boreo —— | 16 | 45 | 30 | 401 | 53 | 16 | 45 | 48 | |
| ♄ 27 | 8 $54\frac{1}{3}$ | *Jupiter* —— à Palilicio —— | 07 | 12 | 05 | 172 | 54 | 07 | 12 | 35 | |
| | 57 | —— rep. | 07 | 12 | 10 | 172 | 56 | 07 | 12 | 38 | |
| | 9 01 | à Cornu Tauri Boreo —— | 09 | 33 | 45 | 229 | 03 | 09 | 34 | 03 | |
| | $03\frac{1}{3}$ | —— rep. | 09 | 33 | 50 | 229 | 08 | 09 | 34 | 10 | *Jupiter in Gemin. 11° Merid. Ret.* |
| | $05\frac{1}{3}$ | —— iter. | 09 | 33 | 55 | 229 | 04 | 09 | 34 | 05 | |
| | 10 | ab Algol Meduſæ —— | 29 | 35 | 15 | 708 | 26 | 29 | 35 | 06 | |
| | 12 | —— rep. | 29 | 35 | 10 | 708 | 21 | 29 | 34 | 59 | |
| | $15\frac{1}{2}$ | ab Humero ſequent. Orionis | 20 | 22 | 50 | 488 | 13 | 20 | 23 | 02 | |
| | 18 | —— rep. | 20 | 22 | 50 | 488 | 13 | 20 | 23 | 02 | |
| | 21 | *Seq. Hum. Orionis* ab Algol Meduſæ —— | 49 | 57 | 25 | 1196 | 18 | 49 | 57 | 06 | |
| ♃ Dec. 2 | 8 47 | *Jupiter* —— à lucida Plejadum —— | 15 | 14 | 10 | 365 | 04 | 15 | 14 | 25 | *Jupiter in Gemin. 10° Merid. Ret.* |
| | 53 | ab Humero præced. Aurigæ | 24 | 36 | 05 | 589 | 28 | 24 | 36 | 51 | |
| MDCLXXXI. | | | | | | | | | | | |
| ☽ Jan. 10 | 9 04 | *Jupiter* —— à Calce Caſtoris —— | 24 | 15 | 10 | 580 | 88 | 24 | 15 | 50 | *Jupiter in Geminorum 6° Merid. Ret.* |
| | $06\frac{1}{3}$ | —— rep. | 24 | 15 | 10 | 580 | 87 | 24 | 15 | 49 | |
| | 11 | à lucido latere Perſei —— | 31 | 48 | 20 | 761 | 44 | 31 | 48 | 27 | |
| | $13\frac{1}{2}$ | —— rep. | 31 | 48 | 15 | 761 | 44 | 31 | 48 | 27 | |
| | 16 | *Lucid. lat. Perſei* à Calce Geminorum —— | 44 | 14 | 10 | 1059 | 36 | 44 | 14 | 13 | |
| ☽ 24 | 5 27 | *Jupiter* —— à lucida Arietis —— | 34 | 43 | 20 | 831 | 31 | 34 | 43 | 10 | |
| | $28\frac{1}{2}$ | —— rep. | 34 | 43 | 25 | 831 | 37 | 34 | 43 | 19 | *Jupiter in Geminorum 6° Merid. Direct.* |
| | 35 | à Capellâ —— | 25 | 39 | 50 | 614 | 76 | 25 | 40 | 45 | |
| | 37 | —— rep. | 25 | 39 | 45 | 614 | 71 | 25 | 40 | 38 | |
| | 46 | *Lucida Arietis* à Capella —— | 44 | 07 | 20 | 1056 | 93 | 44 | 08 | 09 | |
| ♂ Feb. 22 | 7 $15\frac{1}{2}$ | *Jupiter* —— à lucido latere Perſei —— | 32 | 07 | 55 | 769 | 18 | 32 | 07 | 48 | *Jupiter in Geminorum 8° Merid. Direct.* |
| | $17\frac{3}{4}$ | —— rep. | 32 | 08 | 00 | 769 | 19 | 32 | 07 | 50 | |
| | $22\frac{1}{2}$ | à Polluce —— :: | 41 | 03 | 40 | 983 | 50 | 41 | 04 | 10 | |
| | $24\frac{1}{4}$ | —— rep. | 41 | 03 | 55 | 983 | 42 | 41 | 04 | 00 | |
| | $28\frac{1}{2}$ | *Pollux* —— à lucido latere Perſei —— | 53 | 21 | 25 | 1277 | 84 | 53 | 21 | 40 | |
| ☽ Mar. 28 | 8 43 | *Jupiter* —— à Venere —— | 09 | 55 | 20 | 237 | 60 | 09 | 55 | 30 | |
| ♃ 31 | 8 00 | *Jupiter* —— à Calce Caſtoris —— | 17 | 10 | 05 | 411 | 45 | 17 | 10 | 37 | *Jupiter in Geminorum 13° Merid. Direct.* |
| | 03 | —— rep. | 17 | 10 | 05 | 411 | 43 | 17 | 10 | 34 | |
| ☿ Apr. 6 | 7 51 | *Jupiter* —— à Polluce —— | 34 | 39 | 00 | 829 | 86 | 34 | 39 | 33 | *Jupiter in Geminorum 14° Merid. Direct.* |
| | 55 | —— rep. | 34 | 39 | 00 | 829 | 84 | 34 | 39 | 30 | |
| ♀ 8 | 7 $54\frac{1}{2}$ | *Jupiter* —— à Polluce —— | 34 | 16 | 35 | 820 | 86 | 34 | 17 | 03 | *Jupiter in Geminorum 15° Merid. Direct.* |
| | 8 10 | à Venere —— | 03 | 42 | 30 | 088 | 77 | 03 | 42 | 31 | |
| | 18 | ab ε Aurigæ —— | 21 | 11 | 40 | 507 | 52 | 21 | 11 | 45 | |
| | 27 | *Pollux* —— ab Aurigæ ε —— | 36 | 13 | 35 | 867 | 40 | 36 | 13 | 27 | |

| | Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | JOVIS DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♂ Julij 26 | 15 26 | Jupiter — à Venere — | 07 27 30 | 178 62 | 07 27 48 |
| Jupit. in Canc. 10° Merid. Directus. | ☉ 31 | 15 50 | Jupiter — à Palilicio — | 35 15 35 | 844 14 | 35 15 15 |
| | | 52 | — rep. | 35 15 35 | 844 14 | 35 15 15 |
| Jupiter in Cancri 15° juxta Leonem in Directus. | ☉ Sept. 4 | 15 53 | Jupiter — à Palilicio — | 41 07 45 | 984 99 | 41 07 54 |
| | vel ☽ 5 | 55 | — dub. rep. | 41 07 35 | 984 96 | 41 07 50 |
| | mane. | 57 | — iter. | 41 07 45 | 984 99 | 41 07 54 |
| | | 16 00½ | à Calce Caſtoris — | 15 21 05 | 367 67 | 15 21 01 |
| | | 03 | — rep. | 15 21 00 | 367 65 | 15 20 58 |
| | | 06½ | ab Humero Orionis præced. | 33 43 35 | 807 59 | 33 43 51 |
| | | 09 | — rep. | 33 43 35 | 807 61 | 33 43 54 |
| | | 13 | ab Humero ſequente Aurigæ | 29 30 10 | 706 20 | 29 29 57 |
| | | 15½ | — rep. | 29 30 10 | 706 20 | 29 29 57 |
| | ♀ 16 | 15 45 | Jupiter — à Calce Caſtoris — | 16 56 40 | 405 70 | 16 56 14 |
| Jupiter in Cancri 19° Septentr. Dir. | ☉ Oct. 2 | 17 43 | Jupiter — à Caſtore — | 10 38 40 | 254 82 | 10 38 36 |
| | vel ☽ 3 | 45½ | — rep. | 10 38 40 | 254 84 | 10 38 39 |
| | mane. | 50 | à Calce Caſtoris — | 18 30 50 | 433 50 | 18 30 57 |
| | | 52 | — rep. | 18 30 45 | 439 49 | 18 30 56 |
| Jupiter in Cancri 19° Septentr. Dir. | ♂ 11 | 16 28 | Jupiter — à Calce Caſtoris — | 19 04 15 | 456 79 | 19 04 13 |
| | vel ☿ 12 | 31 | — rep. | 19 04 20 | 456 86 | 19 04 23 |
| | mane. | 38 | à Caſtore — | 10 49 25 | 259 14 | 10 49 24 |
| | | 39 | — rep. | 10 49 25 | 259 16 | 10 49 27 |
| Jupiter in Cancri 20° Septentr. Ret. | ♃ Nov. 3 | 16 08 | Jupiter — à Calce Caſtoris — | 19 20 45 | 463 62 | 19 21 24 |
| | vel ♀ 4 | 10 | — rep. | 19 20 45 | 463 64 | 19 21 47 |
| | mane. | 16 | à Polluce — | 06 42 20 | 160 41 | 06 42 10 |
| Jupiter in Cancri 19° Septentr. Ret. | ☽ 21 | 16 48 | Jupiter — à Calce Caſtoris — | 18 21 55 | 440 05 | 18 22 18 |
| | vel ♂ 22 | 50 | — rep. | 18 21 55 | 440 07 | 18 22 21 |
| | mane. | 55 | à Caſtore — | 10 29 10 | 251 03 | 10 29 06 |
| | | 56 | — rep. | 10 29 00 | 250 96 | 10 28 55 |
| | | 17 03½ | à Regulo — | 36 12 55 | 867 10 | 36 12 42 |
| | | 06 | — rep. | 36 12 55 | 867 13 | 36 12 46 |
| Jupiter in Cancri 18° Septentr. Ret. | ♂ 29 | 16 50 | Jupiter — à Regulo — | 36 51 15 | 882 53 | 36 51 18 |
| | vel ☿ 30 | 52 | — rep. | 36 51 10 | 882 50 | 36 51 13 |
| | mane. | 59½ | à Caſtore — | 10 16 40 | 246 08 | 10 16 44 |
| | | 17 01 | — rep. | 10 16 40 | 246 07 | 10 16 42 |
| Jupiter in Cancri 15° ; Sept. 0½ Ret. | ☿ Dec. 21 | 10 00 | Jupiter — à Palilicio — | 40 47 00 | 976 86 | 40 47 01 |
| | | 02 | — rep. | 40 47 00 | 976 92 | 40 47 10 |
| | | 07 | à Calce Caſtoris — | 14 58 50 | 358 78 | 14 58 46 |
| | | 11 | — rep. | 14 58 55 | 358 84 | 14 58 55 |
| | | 16½ | à Caſtore — | 09 51 20 | 236 15 | 09 51 58 |
| Jupiter in Cancri 15° Sept. Ret. juxta Solis Oppoſ. | ♂ 27 | 9 28 | Jupiter — à Palilicio — | 39 59 30 | 957 69 | 39 59 27 |
| | | 31 | — rep. | 39 59 45 | 957 79 | 39 59 42 |
| | | 34 | à Calce Caſtoris — | 14 11 00 | 339 59 | 14 10 45 |
| | | 37 | — rep. | 14 10 55 | 339 58 | 14 10 44 |
| | | 43 | à Caſtore — | 09 52 30 | 236 64 | 09 53 06 |
| | | 46 | — rep. | 09 52 30 | 236 64 | 09 53 06 |
| | | 50 | à Polluce — | 07 29 15 | 179 46 | 07 29 55 |
| | | 53 | — rep. | 07 29 29 | 179 47 | 07 29 57 |

| ANNO CHRISTI MDCLXXXII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | JOVIS DISTANTIÆ à FIXIS. | Diſtantia per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♂ Jan. 3 | 8 03 | *Jupiter* —— à ♂ II^or. Tubo long. 5595= | 27 55 | | | *Jupiter in Cancri 14° Septent. Ret.* |
| | 06½ | —— rep. 5602= | 28 57 | | | |
| ☿ 27 | 8 58 | *Jupiter* —— à Calce Caſtoris —— | 10 35 50 | 253 68 | 10 35 45 | *Jupiter in Cancri 11° Septentr. Ret.* |
| | 59½ | —— rep. | 10 35 45 | 253 67 | 10 35 44 | |
| | 9 05 | à Caſtore —— | 10 43 40 | 257 10 | 10 44 18 | |
| | 08 | —— rep. | 10 43 35 | 257 05 | 10 44 10 | |
| ☿ Feb. 3 | 6 55 | *Jupiter* —— à Calce Caſtoris —— | 10 05 00 | 241 38 | 10 04 58 | *Jup. in Cancri 10° Sept. Ret.* |
| | 57 | —— rep. | 10 05 10 | 241 41 | 10 05 03 | |
| | 7 02½ | à Caſtore —— | 10 57 00 | 262 22 | 10 57 06 | |
| | 04 | —— rep. | 10 56 55 | 262 20 | 10 57 03 | |
| ☽ Mar. 6 | 8 06 | *Jupiter* —— à Calce Caſtoris —— | 09 37 55 | 230 89 | 09 38 42 | *Jupiter in Cancri 10° Septentr. Dir.* |
| | 09 | —— rep. | 09 37 55 | 230 86 | 09 38 37 | |
| | 13 | à Caſtore —— | 19 34 30 | 468 80 | 19 34 24 | |
| | 15 | —— rep. | 19 34 35 | 468 85 | 19 34 32 | |
| ☿ 31 | 9 23 | *Jupiter* —— à Regulo —— | 43 12 05 | 1034 68 | 43 12 25 | *Jupiter in Cancri 12° Septentr. Dir.* |
| | 25 | —— rep. | 43 12 10 | 1034 67 | 43 12 24 | |
| ♃ Apr. 20 | 8 56 | *Jupiter* —— à Regulo —— | 40 37 00 | 972 95 | 40 37 44 | *Jupiter in Cancri 14° Septentr. Dir.* |
| | 58 | —— rep. | 40 37 00 | 972 95 | 40 37 44 | |
| ☿ Sept. 8 | 16 14 | *Jupiter* —— à Calce Caſtoris —— | 42 38 55 | 1021 26 | 42 38 48 | *Jupiter in Leonis 13° Septent. Dir.* |
| *vel* ♄ 9 | 17 | —— rep. | 42 39 00 | 1021 27 | 42 38 50 | |
| *mane.* | 35 | ab ε Leonis —— | 09 32 20 | 228 29 | 09 32 12 | |
| | 37 | —— rep. | 09 32 25 | 228 39 | 09 32 27 | |
| | | *Appropinquante Jove ad Conjunctionem Saturni, vide Fixarum diſtantiam ſub Leone & Saturno.* | | | | |
| | 55 | *Jupiter* —— à Calce Caſtoris, —— iter. | 42 39 45 | 1021 57 | 42 39 35 | |
| | 57 | —— rep. | 42 39 40 | 1021 55 | 42 39 32 | |
| ♃ 21 | 17 12½ | *Jupiter* —— à Regulo —— | 09 34 40 | 229 22 | 09 34 32 | *Jupiter in Leonis 15° Septentr. Dir.* |
| *vel* ☿ 22 | 15 | —— rep. | 09 34 35 | 229 21 | 09 34 30 | |
| *mane.* | 38¾ | à Calce Caſtoris —— | 44 59 30 | 1077 33 | 44 59 12 | |
| | 40½ | —— rep. | 44 59 30 | 1077 44 | 44 59 28 | |
| ♃ 28 | 16 36½ | *Jupiter* —— à Calce Caſtoris —— | 46 07 55 | 1104 60 | 46 07 38 | *Jupiter in Leonis 16° Septentr. Dir.* |
| *vel* ☿ 29 | 43½ | —— rep. | 46 08 05 | 1104 63 | 46 07 43 | |
| *mane.* | | | | | | |
| ♂ Nov. 7 | 17 03½ | *Jupiter* —— à Calce Caſtoris —— | 50 40 55 | 1213 66 | 50 40 55 | *Jupiter in Leonis 21° Septentr. Dir.* |
| | 05 | —— rep. | 50 41 00 | 1213 67 | 50 40 57 | |
| | 11 | ab ε Leonis —— | 10 21 30 | 247 86 | 10 21 10 | |
| ♂ 21 | 18 07 | *Jupiter* —— à Polluce —— | 33 40 55 | 806 24 | 33 40 28 | *Jupiter in Leonis 21° Septentr. Dir.* |
| | 09 | —— rep. | 33 40 50 | 806 18 | 33 40 20 | |
| ☽ Dec. 25 | 18 22 | *Jupiter* —— ab infima in Cingulo ♍^is γ | 44 54 30 | 1075 67 | 44 55 03 | *Jupiter in Leonis 20° Septentr. Ret.* |
| | 26 | —— rep. | 44 54 40 | 1075 68 | 44 55 05 | |
| MDCLXXXIII. | | | | | | |
| ☿ Jan. 10 | 10 54 | *Jupiter* —— à Calce Caſtoris —— | 48 20 55 | 1157 81 | 48 21 00 | *Jupiter in Leonis 18° Septentr. Ret.* |
| | 56 | —— rep. | 48 20 50 | 1157 77 | 48 20 54 | |

| | Anno Christi MDCLXXXIII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | JOVIS DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Jupiter in Leonis 17° Sept. Ret.* | ☿ Jan. 24 | 11 00 | *Jupiter* —— à Regulo —— | 08 03 40 | 192 83 | 08 03 25 |
| | | 02 | —— rep. | 08 03 45 | 192 88 | 08 03 33 |
| | | 11 | à Calce Caſtoris —— | 46 33 15 | 1114 74 | 46 33 03 |
| | | 13 | —— rep. | 46 33 20 | 1114 76 | 46 33 06 |
| | | 25 | à clara in capite Leonis ε – | 08 43 55 | 209 09 | 08 44 07 |
| | | 29 | —— rep. | 08 44 05 | 209 13 | 08 44 13 |
| | | | *Vide Saturni, à Jove & Fixarum ab invicem diſtantias ſub Saturno.* | | | |
| *Oppoſ. Solis Jovis. Jupiter in Leonis 17° Sept. Ret.* | ♀ 26 | 9 24 | *Jupiter* —— à Calce Caſtoris —— | 46 18 10 | 1108 68 | 46 17 51 |
| | | 26 | —— rep. | 46 18 05 | 1108 63 | 46 17 44 |
| | | 37 | à clarâ in Capite Leonis ε | 08 42 05 | 208 33 | 08 42 13 |
| | | 39 | —— rep. | 08 42 05 | 208 33 | 08 42 13 |
| | | 48 | à Regulo —— | 08 18 00 | 199 07 | 08 19 03 |
| | | 50 | —— rep. | 08 17 55 | 199 02 | 08 18 56 |
| | | 59 | *Regulus* —— à Leonis ε —— | 12 58 30 | 310 56 | 12 58 06 |
| | | 10 03 | *Calx Caſtoris* — à Regulo —— | 54 34 20 | 1306 82 | 54 34 07 |
| | | 08½ | *Calx Caſtoris* — à Leonis ε —— | 46 24 45 | 1111 35 | 46 24 33 |
| *Jupiter in Leonis 16° Sept. Ret.* | ♀ Feb. 2 | 7 03 | *Jupiter* —— à Regulo —— | 09 13 25 | 220 61 | 09 12 58 |
| | | 06 | —— rep. | 09 13 25 | 220 62 | 09 13 00 |
| | | 16 | ab ε Leonis —— | 08 39 00 | 207 08 | 08 39 06 |
| | | 17½ | —— rep. | 08 38 55 | 207 06 | 08 39 03 |
| *Jupiter in Leonis 14° Sept. Ret.* | ♀ 16 | 8 25 | *Jupiter* —— à Calce Caſtoris —— | 43 40 45 | 1045 85 | 43 40 24 |
| | | 28 | —— rep. | 43 40 55 | 1045 91 | 43 40 33 |
| | | 44 | ab ε Leonis —— | 08 48 45 | 211 08 | 08 49 07 |
| | | 46 | —— rep. | 08 48 40 | 211 03 | 08 49 00 |
| | | 50 | à Regulo —— | 10 56 55 | 261 99 | 10 56 31 |
| | | 52 | —— rep. | 10 56 55 | 262 00 | 10 56 33 |
| | | 9 00 | *Jupiter* —— à Saturno —— | 00 51 40 | 20 54 | 00 51 21 |
| | | | —— rep. | 00 51 35 | 20 54 | 00 51 29 |
| *Jupiter in Leonis 13° Sept. Ret.* | ☉ 25 | 8 39 | *Jupiter* —— à Calce Caſtoris —— | 42 45 20 | 1023 78 | 42 45 06 |
| *Jupiter in Leonis 12° Sept. Ret.* | ☽ Mar. 19 | 8 28 | *Jupiter* —— à Calce Caſtoris —— | 41 24 05 | 991 79 | 41 24 58 |
| | | 33 | —— rep. | 41 24 05 | 991 79 | 41 24 58 |
| | | 43 | à Regulo —— | 13 12 10 | 316 18 | 13 12 10 |
| | | 45 | —— rep. | 13 12 10 | 316 17 | 13 12 08 |
| *Jupiter in Leonis 12° Sept. Dir.* | ♃ Apr. 19 | 9 20½ | *Jupiter* —— à Regulo —— | 12 35 15 | 301 45 | 12 35 18 |
| | | 24 | —— rep. | 12 35 10 | 301 47 | 12 35 21 |
| | | 44 | ab η Virginis —— | 47 33 05 | 1138 69 | 47 33 04 |
| | | 46 | —— rep. | 47 33 15 | 1138 78 | 47 33 18 |
| *Jupiter in Leonis 13° Sept. Dir.* | ♀ 27 | 9 51 | *Jupiter* —— à Regulo —— | 11 58 35 | 286 73 | 11 58 27 |
| | | 53 | —— rep. | 11 58 35 | 286 74 | 11 58 28 |
| *Jupiter in Leonis 13° Sept. Dir.* | ♃ Maij 3 | 9 59 | *Jupiter* —— à clara in Capite Leonis, ε | 09 00 50 | 215 85 | 09 01 05 |
| | | 10 02 | —— rep. | 09 00 50 | 215 85 | 09 01 05 |
| | | 10 | à Regulo —— | 11 24 30 | 273 13 | 11 24 25 |
| | | 13 | —— rep. | 11 24 30 | 273 08 | 11 24 18 |
| *Jupiter in Leonis 14° Sept. Dir.* | ♄ 5 | 10 25 | *Saturnus* —— à Jove; inter centra – 3467 = | 00 17 18 | | |
| | | 28 | —— rep. 3467 = | 00 17 18 | | |

| Anno Christi MDCLXXXIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | *JOVIS* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☉ Maij 6 | 8 57 | Inter centra Saturni & Jovis —— 3226 = | 00 16 06 | | | |
| | 9 00 | —— rep. 3231 = | 00 16 08 | | | |
| | 01 | Inter limbos prox. —— 3119 = | 00 15 34 | | | |
| | 03 | —— rep. 3114 = | 00 15 32 | | | |
| | 05 | Inter limbos rem. Saturni & Jovis 3315 = | 00 16 32 | | | |
| | 07 | —— rep. 3345 = | 00 16 41 | | | |
| | | *Jove semper Australiore.* | | | | |
| ☽ 07 | 8 59½ | *Jupiter* —— à Regulo —— | 10 59 00 | 262 90 | 10 58 48 | *Jupiter in Leonis 14° Sept. Dir.* |
| | 9 01 | —— rep. | 10 59 00 | 262 90 | 10 58 48 | |
| | 11 | à clarâ in Capite Leonis | 08 55 35 | 213 62 | 08 55 28 | |
| | 15 | —— rep. | 08 55 40 | 213 65 | 08 55 33 | |
| | 30 | Inter centra Jovis & Saturni —— 3135 = | 00 15 38 | } *nimia* | | |
| | 33 | —— rep. 3132 = | 00 15 37 | } *forsan.* | | |
| | 35 | Inter limbos proximos —— 3016 = | 00 15 03 | | | |
| | 36 | —— rep. 3007 = | 00 15 00 | | | |
| | 40 | Inter limbos remotos —— 3213 = | 00 16 02 | | | |
| | 42 | —— rep. 3202 = | 00 15 58 | | | |
| | 10 20 | *Jupiter* —— à Prima Alæ ♍is austrinæ | 38 11 45 | 914 77 | 38 11 55 | |
| | 23 | —— rep. | 38 11 45 | 914 78 | 38 11 57 | |
| ♂ 8 | 9 32 | Inter centra Jovis & Saturni —— 3165 = | 00 15 47 | | | |
| | 34 | —— rep. 3160 = | 00 15 46 | | | *Jupiter in Leonis 14° Sept. Dir.* |
| | 46 | *Jupiter* —— à Regulo —— | 10 52 05 | 260 16 | 10 51 57 | |
| | 47½ | —— rep. | 10 52 00 | 260 13 | 10 51 52 | |
| ☿ 9 | 9 30 | Inter limbos prox. Saturni & Jovis 3208 = | 00 16 00 | | | |
| | 46 | Inter centra —— 3318 = | 00 16 33 | | | *Jupiter in Leonis 14° Sept. Dir.* |
| | 47 | —— rep. 3318 = | 00 16 33 | | | |
| ♃ 10 | 9 11 | Inter centra Jovis & Saturni —— 3603 = | 00 17 58 | | | *Jupiter in Leonis 14° Sept. Dir.* |
| | 12½ | —— rep. 3603 = | 00 17 58 | | | |
| ♀ 11 | 9 28 | Inter centra Jovis & Saturni —— 4015 = | 00 20 02 | | | |
| | 31 | —— rep. 4015 = | 00 20 02 | | | |
| | 45 | *Jupiter* —— à Regulo —— | 10 30 50 | 251 68 | 10 30 45 | *Jupiter in Leonis 14° Sept. Dir.* |
| | 48 | —— rep. | 10 30 50 | 251 70 | 10 30 48 | |
| ☿ 16 | 9 22 | Inter centra Jovis & Saturni —— 6830 = | 00 34 04 | | | |
| ♃ 17 | 9 54 | Inter centra Jovis & Saturni —— 7500 = *Dubia propter ventum & distantiæ amplitudinem.* | 00 37 25 | | | *Jupiter in Leonis 15° Sept. Dir.* |
| | 10 16 | *Jupiter* —— à Regulo —— | 09 45 00 | 233 50 | 09 45 15 | |
| | 18 | —— rep. | 09 45 10 | 233 53 | 09 45 20 | |
| ♃ 31 | 10 12 | *Jupiter* —— à Regulo —— | 07 42 45 | 184 41 | 07 42 20 | *Jupiter in Leonis 17° Sept. Dir.* |
| | 14 | —— rep. | 07 42 50 | 184 43 | 07 42 23 | |
| ☿ Sept. 5 | 16 30 | *Jupiter* —— à ♀e Tubo long. inter centra. —— } 4880 = | 00 24 20 | | | *Jupiter in Virginis 7° Sept. Dir.* |
| | 59 | —— rep. 4909 = | 00 24 29 | | | |
| | 17 15 | à Polluce —— | 48 40 25 | 1165 57 | 48 41 00 | |
| | 24 | *Venus* —— à Polluce —— | 48 26 25 | 1159 94 | 48 26 20 | |
| ♃ Nov. 1 | 17 45½ | *Jupiter* —— à Regulo —— | 22 40 15 | 542 73 | 22 40 12 | *Jupiter in Virginis 17° Sept. Dir.* |
| | 49½ | —— rep. | 22 40 15 | 542 75 | 22 40 15 | |

| | Anno Christi MDCLXXXIII.<br>Mense, Die. Styl. Vet. | Temp. App.<br>H. M. | *JOVIS*<br>DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales.<br>° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes.<br>Revol. Cent. | <br>° ′ ″ |
|---|---|---|---|---|---|---|
| *Jupit. in Virg. 18° Sept. Dir.* | ♂ Nov. 6 | 17 28<br>31 | *Jupiter* ——— à Regulo ———<br>——— rep. | 23 24 05<br>23 23 50 | 560 07<br>559 99 | 23 23 28<br>23 23 16 |
| *Jupit. in Virg. 19° Sept. Dir.* | ☉ 11 | 19::00<br>::03 | *Jupiter* ——— à Regulo ———<br>——— rep.<br>*Tempora notata per horologium ambulatorium vix satis certa.* | 24 04 15<br>24 04 20 | 576 23<br>576 30 | 24 04 10<br>24 04 21 |
| *Jupit. in Virg. 21° Sept. Dir.* | ☽ 3 | 18 39<br>41 | *Jupiter* ——— à Regulo ———<br>——— rep. | 26 18 50<br>26 18 50 | 629 93<br>629 95 | 26 18 48<br>26 18 15 |
| | MDCLXXXIV. | | | | | |
| *Jupit. in Virg. 18° Sept. Ret.* | ♀ Feb. 15 | 10 18<br>20 | *Jupiter* ——— à Regulo ———<br>——— rep. | 23 37 05<br>23 37 10 | 565 41<br>565 47 | 23 37 05<br>23 37 14 |
| *Jupit. in Virg. 17° Sept. Ret.* | ♄ 23 | 9 35<br>37 | *Jupiter* ——— à Regulo ———<br>——— rep. | 22 36 20<br>22 36 30 | 541 09<br>541 13 | 22 36 05<br>22 36 10 |
| *Jupit. in Virg. 17° Sept. Ret.*<br>*Jupit. in Opposi. fere Sol. in Virg. 17° cum Lat. Bor. 1½.* | ☿ 27 | 8 55<br>57<br>9 02<br>04<br>17<br>20 | *Jupiter* ——— à Regulo ———<br>——— rep.<br>à Polluce ———<br>——— rep.<br>à Caudâ Leonis ———<br>——— rep. | 22 05 40<br>22 05 35<br>58 41 25<br>58 41 25<br>10 46 40<br>10 46 40 | 528 91<br>528 86<br>1405 56<br>1405 57<br>258 06<br>258 10 | 22 05 29<br>22 05 21<br>58 40 55<br>58 40 57<br>10 46 42<br>10 46 48 |
| *Jupit. in Virg. 14° Sept. Ret.* | ♀ Mar. 21 | 9 16<br>18 | *Jupiter* ——— à Regulo ———<br>——— rep. | 19 19 10<br>19 19 00 | 462 73<br>462 68 | 19 19 09<br>19 19 02 |
| *Jupit. in Virg. 14° Sept. Ret.* | ♂ 25 | 8 18<br>20<br>34<br>37 | Jovis centrum à σ Leonis ——— 2317 =<br>——— rep. 2304 =<br>Jovis limbus remotus à ✳ ——— 2355 =<br>proximus ——— 2217 = | 00 11 34<br>00 11 30<br>00 11 45<br>00 11 04 |  | *σ ♌ˢ est in ♍ˢ 14°18′ Lat. 1.40B Tychonice* |
| *Jupit. in Virg. 13° Sept. Ret.* | ☿ 28 | 8 53<br>55½ | Jovis centrum à fixa σ Leonis ——— 3730 =<br>——— rep. 3715 = | 00 18 37<br>00 18 32 |  | |
| *Jupit. in Virg. 13° Sept. Ret.* | ☉ 30 | 9 19<br>23 | Jovis centrum à σ Leonis ——— 5625 =<br>——— rep. 5605 = | 00 28 04<br>00 27 58 |  | |
| *Jupit. in Virg. 12° Sept. Ret.* | ♄ Apr. 12 | 8 25<br>27 | *Jupiter* ——— à Regulo ———<br>——— rep. | 17 37 20<br>17 37 25 | 422 12<br>422 12 | 17 37 27<br>17 37 27 |
| *Jupit. in Virg. 12° Sept. Dir.* | ♀ Maij 2 | 8 36<br>41<br>10 00<br>02 | *Jupiter* ——— à Regulo ———<br>——— rep.<br>à Spica Virginis ———<br>——— rep. | 17 16 20<br>17 16 30<br>36 54 10<br>36 54 05 | 413 86<br>413 88<br>883 62<br>883 60 | 17 16 40<br>17 16 43<br>36 54 02<br>36 53 59 |
| *Jupit. in Virg. 12° Sept. Dir.* | ☉ 11 | 8 59<br>9 01 | *Jupiter* ——— à Spica Virginis ———<br>——— rep. | 36 39 30<br>36 39 25 | 877 80<br>877 74 | 36 39 27<br>36 39 18 |
| *Jupit. in Virg. 13° Sept. Dir.* | ♀ 21 | 9 14<br>24 | *Jupiter* ——— à Spica Virginis ———<br>——— rep. | 36 07 30<br>36 07 35 | 864 86<br>864 89 | 36 07 06<br>36 07 10 |
| *Jupit. in Virg. 18° Sept. Dir.* | ♂ Junij 24 | 9 25<br>27 | *Jupiter* ——— à Spica Virginis ———<br>——— rep. | 32 26 50<br>32 26 50 | 776 68<br>776 66 | 32 26 33<br>32 26 30 |
| *Jupit. in Lib. 9° Sept. Dir.* | ♂ Oct. 14 | 18 06<br>08 | *Jupiter* ——— à Regulo ———<br>——— rep. | 43 55 30<br>43 55 40 | 1051 74<br>1051 81 | 43 55 09<br>43 55 19 |

| Anno Christi MDCLXXXIV. Mense, Die. Styl. Vet. | Temp. App. M. H. | JOVIS DISTANTIÆ à FIXIS. | Distantiæ per lineam diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☉ Oct. 27 | 18 46 | Jupiter —— à Regulo —— | 46 23 25 | 1110 77 | 46 23 06 | Jupit. in Libr. |
| | 48 | —— rep. | 46 23 20 | 1110 76 | 46 23 05 | 11° Sept. Dir. |
| MDCLXXXV. | | | | | | |
| ♄ Mar. 21 | 10 45 | Jupiter —— à Regulo —— | 52 57 20 | 1267 98 | 52 57 00 | Jupit. in Libr. |
| | | —— rep. | 52 57 30 | 1268 01 | 52 57 05 | 15° 06 · Ret. |
| ☉ 22 | 15 43 | Jupiter —— à suprema in fronte ♏ii β | 40 31 55 | 970 59 | 40 31 48 | |
| | 45 | —— rep. | 40 31 55 | 970 60 | 40 31 50 | Jupit. in Libr. |
| | 48 | ab Antare —— | 47 28 25 | 1136 70 | 47 28 05 | 18° Sept. Ret. |
| | 50 | —— rep. | 47 28 15 | 1136 67 | 47 28 00 | |
| ♀ 27 | 11 08 | Jupiter —— à Regulo —— | 52 10 50 | 1249 67 | 52 11 12 | Oppos. Sol Jupit. Jupit. in Libr. |
| | 11½ | —— rep. | 52 10 50 | 1249 69 | 52 11 15 | 17° 27′ Ret. |
| ♄ Maij 23 | 10 25 | Jupiter —— à suprema in fronte ♏ii —— | 46 07 25 | 1104 34 | 46 06 57 | Jupit. in Libr. |
| | 27 | —— rep. | 46 07 25 | 1104 35 | 46 06 58 | 12° Sept. Ret. |
| ♀ Nov. 6 | 18 45 | Jupiter —— à Spica Virginis —— | 18 36 35 | 445 61 | 18 36 13 | Jupit. in Scorp. |
| | 47 | —— rep. | 18 36 45 | 445 71 | 18 36 28 | 7° Sept. Dir. |
| MDCLXXXVI. | | | | | | |
| ☉ Jan. 10 | 17 30½ | Jupiter —— à Spica Virginis —— | 30 17 35 | 725 09 | 30 17 18 | Jupit. in Scorp. |
| | 34 | —— rep. | 30 17 25 | 725 07 | 30 17 15 | 19° Sept. Dir. |
| ♀ Apr. 30 | 13 24 | Jupiter —— à Spica Virginis —— | 28 13 20 | 675 68 | 28 13 32 | Jupit. in Scorp. |
| | 28 | —— rep. | 28 13 20 | 675 68 | 28 13 32 | 17° ½ cum Lat. |
| | 34 | à clarâ supr. in fronte ♏ii | 11 19 00 | 270 95 | 11 18 57 | 1¼ Bor. 3. dies |
| | 37 | —— rep. | 11 19 10 | 270 93 | 11 18 54 | post Oppos. Sol. |
| | 42 | à Lance borea Libræ —— | 07 43 10 | 184 50 | 07 42 33 | |
| | 45 | —— rep. | 07 43 10 | 184 52 | 07 42 36 | |
| ♀ Maij 14 | 10 03 | Jupiter —— à Spica Virginis —— | 26 31 30 | 634 93 | 26 31 21 | |
| | 05 | —— rep. | 26 31 30 | 634 91 | 26 31 18 | Jupit. in Scorp. |
| | 11 | ab Arcturo —— | 38 33 30 | 923 31 | 38 33 18 | 15° Sept. Ret. |
| | 13 | —— rep. | 38 33 35 | 923 36 | 38 33 25 | |
| ♂ Aug. 24 | 7 46 | Jupiter —— ab ultima in Capite Sagit. | 54 38 30 | 1308 58 | 54 38 32 | Jupit. in Scorp. |
| | 49 | —— rep. | 54 38 40 | 1308 67 | 54 38 45 | 16° Sept. Ret. |
| MDCLXXXVII. | | | | | | |
| ♂ Jan. 19 | 17 48 | Jupiter —— ab austrina Lance Libræ — | 36 21 30 | 870 41 | 36 20 58 | Jupit. in Sagit. |
| | 50 | —— rep. | 36 21 35 | 870 49 | 36 21 10 | 17° Sept. Dir. |
| ♂ Mar. 8 | 16 01 | Jupiter —— à clara supr. in front. ♏ii | 24 29 35 | 586 39 | 24 29 36 | Jupit. in Sagit. |
| | 03½ | —— rep. | 24 29 45 | 586 46 | 24 29 46 | 23° Sept. Dir. |
| ♄ Maij 21 | 10 56 | Jupiter —— à Spica Virginis —— | 60 54 40 | 1458 72 | 60 53 48 | |
| | 11 02 | —— rep. | 60 54 40 | 1458 77 | 60 53 55 | Jupit. in Sagit. |
| | 06 | ab austrina Lance Libræ — | 39 36 40 | 948 53 | 39 36 29 | 20° Sept. Ret. |
| | 09½ | —— rep. | 39 36 40 | 948 59 | 39 36 38 | |
| ☽ 30 | 12 39 | Jupiter —— à clara supr. in front. ♏ii β | 20 23 10 | 488 08 | 20 22 54 | |
| | 42½ | —— rep. | 20 23 10 | 488 07 | 20 22 52 | Jupit. in Sagit. |
| | 46 | ab ultima in Capite Sagit. ♐ | 22 42 25 | 543 49 | 22 42 06 | 19° Sept. Ret. |
| | 50 | —— rep. | 22 42 25 | 543 50 | 22 42 08 | |
| | 13 00 | à Capite Herculis —— | 37 24 55 | 895 78 | 37 24 25 | |
| | 02 | —— rep. | 37 24 55 | 895 78 | 37 24 25 | |

| | Anno Christi MDCLXXXVII. Menfe, Die. Styl. Vet. | Temp. App. H. M. | JOVIS DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Jupit. in Oppos. Solis. Jupit. in Sagit. 19° Sept. Ret.* | ♂ Maij 31 | 11 07 | *Jupiter* ——— à Yed Ophiuchi ——— | 26 43 05 | 639 45 | 26 42 40 |
| | | 09 | ——— rep. | 26 43 05 | 639 57 | 26 42 58 |
| | | 15 | ab Aquilæ Lucida ——— | 46 27 25 | 1112 42 | 46 27 12 |
| | | 17 | ——— rep. | 46 27 25 | 1112 52 | 46 27 27 |
| | | 22 | à fuprema in Fronte ♏i β | 20 15 55 | 485 32 | 20 15 58 |
| | | 26⅓ | ——— rep. | 20 15 50 | 485 26 | 20 15 50 |
| *Jupit. in Sagit. 16° Sept. Ret.* | ♄ Junij 25 | 11 05 | *Jupiter* ——— ab Aquilæ lucida ——— | 48 43 00 | 1166 74 | 48 43 24 |
| | | 10 | ——— rep. | 48 43 10 | 1166 80 | 48 43 33 |
| | | 14 | per D. *Fatium* Helvet. iter. | 48 42 50 | 1166 75 | 48 43 25 |
| | | 22 | à Yed Ophiuchi ——— | 24 34 55 | 588 42 | 24 34 42 |
| | | 27 | per dictum D. *Fatium* rep. | 24 34 45 | 588 38 | 24 34 36 |
| *Jupit. in Sagit. 14° Sept. Ret.* | ♄ Julij 9 | 10 03 | *Jupiter* ——— ab ultima in Cap. Sagit. ♐ | 26 56 30 | 644 88 | 26 56 19 |
| | | 06 | ——— rep. | 26 56 30 | 644 87 | 26 56 18 |
| | MDCLXXXVIII. | | | | | |
| *Jupit. in Capricorni 18° Mer. Dir.* | ☽ Feb. 13 vel ♂ mane | 17 57 | *Jupiter* ——— ab Antare ——— | 43 16 10 | 1035 82 | 43 15 16 |
| | | 18 00 | ——— rep. | 43 16 20 | 1035 89 | 43 15 27 |
| | | 04 | à Clara fupr. in Fronte ♏i β | 49 39 05 | 1188 86 | 49 38 48 |
| | | 06 | ——— rep. | 49 39 15 | 1188 90 | 49 38 54 |
| | | 21 | ——— denuo. | 49 39 35 | 1189 06 | 49 39 18 |
| | | 24 | ab Antare ——— iter. | 43 16 50 | 1036 10 | 43 15 58 |
| | | 26 | ——— denuo. | 43 16 10 | 1036 11 | 43 16 00 |
| *Jupit. in Capricorni 23° Mer. Ret.* | ♀ Junij 22 | 10 22 | *Jupiter* ——— ab Antare ——— | 48 26 30 | 1159 85 | 48 26 06 |
| | | 25 | ——— rep. | 48 26 40 | 1159 91 | 48 26 15 |
| | | 32 | à fupr. in Fronte Scorpii β | 54 54 30 | 1314 90 | 54 54 21 |
| | | 35 | ——— rep. | 54 54 30 | 1314 91 | 54 54 23 |
| *Jupit. in Capricorni 22° Mer. Ret. Die poft Oppof. Solis. Jupit. in Capricorni 22° ½ 0° ½ Mer.* | ☿ Julij 4 | 9 42 | *Jupiter* ——— ab Antare ——— | 46 55 10 | 1123 51 | 46 55 03 |
| | | 45 | ——— rep. | 46 55 05 | 1123 46 | 46 54 55 |
| | | 49 | à Supr. in Fronte Scorpii β | 53 23 45 | 1278 43 | 53 23 09 |
| | | 53 | ——— rep. | 53 23 45 | 1278 42 | 53 23 07 |
| | | 10 00 | ab Humer. Aquarii fequente | 38 13 55 | 915 44 | 38 13 36 |
| | | 03 | ——— rep. | 38 13 55 | 915 43 | 38 13 44 |
| | | 08 | à lucid. Auft. in Cauda Aquil. | 37 09 10 | 889 47 | 37 08 39 |
| | | 11 | ——— rep. | 37 09 15 | 889 55 | 37 08 51 |
| | | 30 | ab ultima in Capit. Sagit. ♐ | 10 29 10 | 250 93 | 10 28 51 |
| | | 32 | ——— rep. | 10 29 20 | 251 00 | 10 29 01 |
| *Jup. in Capricorni 17° Mer. Ret.* | ♂ Aug. 28 | 8 07 | *Jupiter* ——— ab Humer. Aquarii præced. | 32 48 40 | 785 45 | 32 48 30 |
| | | 10 | ——— rep. | 32 48 30 | 785 37 | 32 48 24 |
| | | 19 | ab Auftr. luc. in Cauda Aquil. | 36 45 20 | 880 13 | 36 45 16 |
| | | 23 | ——— rep | 36 45 10 | 880 05 | 36 45 05 |
| | MDCLXXXIX. | | | | | |
| *Jupit. in Pifc. 0½ Mer. Dir.* | ☽ Apr. 29 | 15 00 | *Jupiter* ——— ab ult. in Capite Sagittarii ♐ | 47 55 30 | 1147 58 | 47 55 20 |
| | | 03 | ——— rep. | 47 55 40 | 1147 64 | 47 55 29 |
| | | 13 | ——— iter. | 47 56 00 | 1147 75 | 47 55 46 |
| | | 25 | ——— denuo. | 47 56 10 | 1147 84 | 47 55 58 |
| *Jupit. in Pifc. 1° Mer. Ret.* | ☉ Julij 7 | 14 55 | *Jupiter* à σ Aquarii, Tubo pedum 16. 2325 | 00 11 36 | | |
| | | 15 03 | à fecunda Arietis ——— | 58 57 35 | 1412 23 | 58 57 36 |
| | | 05 | ——— rep. | 58 57 45 | 1412 25 | 58 57 39 |
| | | 09 | à Marte ——— | 45 37 25 | 1092 65 | 45 37 37 |

| Anno Christi MDCLXXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | *JOVIS* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♂ Julij 9 | 10 35 | *Jovis limb. rem.* à σ Aquarii —— 620 = | 00 03 06 | | | *Jupit. in Pisc. 1° Mer. Ret.* |
| ♀ Aug. 9 | 9 48 | *Jupiter* —— ab ultima in Capite Sagittarii —— } π | 45 38 00 | 1092 81 | 45 38 02 | |
| | 52 | —— rep. | 45 37 45 | 1092 71 | 45 37 46 | *Jupit. in Aqua. 27° Mer. Ret. Oppos. Jov. Sol.* |
| | 58 | ab Humero antecedente Aquarii —— } | 12 58 50 | 310 78 | 12 58 39 | |
| | 10 02 | —— rep. | 12 58 50 | 310 75 | 12 58 34 | |
| | 08 | ab Ore Pegasi —— | 23 22 35 | 559 50 | 23 22 15 | |
| | 11 | —— rep. | 23 22 40 | 559 50 | 23 22 15 | |
| | 20 | à clara in Lino Bor. ♓um n | 55 20 25 | 1325 30 | 55 20 21 | |
| | 24 | —— rep. | 55 20 15 | 1325 30 | 55 20 21 | |
| | 30 | ab extrema Alæ Pegasi —— | 39 34 30 | 947 99 | 39 35 07 | |
| | 34 | —— rep. | 39 34 50 | 948 01 | 39 35 10 | |
| ♄ 10 | 8 48 | *Jupiter* —— ab ult. in Capite Sagittarii | 45 30 50 | 1089 96 | 45 30 54 | *Jupit. in Aqua. 27° Mer. Ret.* |
| | 52 | —— rep. | 45 30 50 | 1089 97 | 45 30 55 | |
| | 58 | à θ in Dorso Capricorni —— | 17 52 10 | 427 99 | 17 52 01 | |
| | 9 01 | —— rep. | 17 52 10 | 427 93 | 17 51 55 | |
| | 13 | à λ in Aqua Aquarii —— | 09 56 50 | 238 07 | 09 56 40 | |
| | 18 | —— rep. | 09 56 50 | 238 03 | 09 56 35 | |
| | 24 | *Capricorni* θ — à λ Aquarii —— | 27 44 00 | 663 91 | 27 44 03 | |

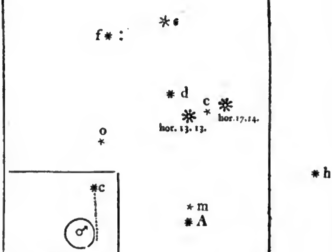
| | Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *MARTIS* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Mars in Cancri $15^\circ\frac{1}{2}$ ad primam, stat. Sept.* | ☽ Nov. 6 | 11 $56\frac{1}{2}$ | *Mars* —— à Palilicio —— | | 976 37 | 40 46 18 |
| | | 12 $18\frac{1}{2}$ | —— rep. | | 976 50 | 40 46 37 |
| *Mars in Canc. $14^\circ\frac{1}{2}$ Septentr. Retrog.* | ♃ 16 vel ♀ 17 *mane.* | 17 19 | *Mars* —— à Regulo —— | | 975 93 | 40 45 10 |
| *Mars in Canc. $13^\circ$.* | ♃ 23 | 12 01 | *Mars* —— à Palilicio —— | | 930 16 | 38 50 31 |
| | | 18 07 | à Regulo —— | | 1009 93 | 42 10 25 |
| *Mars in Canc. $10^\circ\frac{1}{2}$.* | ♄ Dec. 2 | 9 45 | *Mars* —— à Palilicio —— | | 870 27 | 36 20 40 |
| | | | *Oppositio Martis & Solis hoc anno acciderit mane diei 16, hujus mensis, attamen cum Cœlum tunc, ut & diebus pluribus antecedentibus, densis nubibus subductum extiterit, Planetam ante Vesperam diei 18, observitare non potuerim, quando captæ Distantiæ* | | | |
| | ☽ 18 | 6 21 | *Martis* —— à Cornu Tauri Australi — | | 369 13 | 15 24 42 |
| | | 26 | —— rep. | | 369 08 | 15 24 34 |
| | | 35 | à Palilicio —— | | 732 70 | 30 36 19 |
| | | $39\frac{1}{2}$ | —— rep. | | 732 75 | 30 36 27 |
| | | | *Utraq. Fixa Marte aliquantulùm altiore.* | | | |
| | | $47\frac{1}{2}$ | *Mars* —— à Castore —— | | 307 95 | 12 51 39 |
| | | 51 | —— rep. | | 307 93 | 12 51 36 |
| | | | *Fixa humiliore paululo quam Planeta.* | | | |
| *Mars in Canc. $4^\circ\frac{1}{2}$ Sept. Ret. $2\frac{1}{2}$ dies post Oppos. Solis.* | | 7 $45\frac{1}{3}$ | *Mars* —— à Capella —— *ter.* | | 607 83 | 25 23 21 |
| | | 8 10 | ab Australi Cornu Tauri — | | 368 56 | 15 23 16 |
| | | $14\frac{1}{2}$ | —— rep. | | 368 56 | 15 23 16 |
| | | $25\frac{1}{2}$ | à Castore —— | | 308 47 | 12 52 58 |
| *Mars in Canc. $4^\circ\frac{1}{2}$. Lat. Bor. $3^\circ\frac{1}{2}$.* | | 29 | —— rep. | | 308 47 | 12 52 58 |
| | | | *Has sequente mane repetere constituissem Distantias, experiundi gratia, an Planetæ, Terræ proximi, Parallaxis sensibilis esset, necne; sed sparsæ sub Cœlo nubes iterùm desideratam multò opportunitatem eripuerunt, donec humilior factus fuerit Planeta, expectavi ergo sollicitus sequentem vesperam, redeunte quando exoptatissima mihi serenitate, aere tranquillo, observatæ Distantiæ.* | | | |
| *Mars Sept. Ret.* | ♂ 19 | 7 $22\frac{1}{2}$ | *Martis* —— ab Australi Cornu Tauri — | | 361 30 | 15 05 05 |
| | | $25\frac{1}{4}$ | —— rep. | | 361 28 | 15 05 01 |
| | | 31 | à Cornu Tauri Boreali — | | 385 35 | 16 05 16 |
| | | $33\frac{3}{4}$ | —— rep. | | 385 35 | 16 05 16 |
| | | 8 00 | à Manu Castoris Boreali θ | | 185 43 | 07 44 52 |
| | | 18 | —— melius repetita. | | 185 25 | 07 44 25 |
| | | 30 | à Capella —— sæpe repetita. | | 601 45 | 25 07 22 |
| | | 44 | à Castore —— | | 316 50 | 13 13 00 |
| | | | —— rep. | | 316 48 | 13 12 57 |
| | | | *Observationes pro parallaxi Planetæ investig. institutæ diligentèr habitæ & repetitæ. Deinde post Mediam Noctem.* | | | |

| Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *MARTIS* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♂ Dec. 19 | 16 11 | *Mars* ——— ab inferiore Cornu Tauri | | 356 88 | 14 54 09 | |
| | 16⅓ | ——— sæpe rep. | | 356 77 | 14 53 52 | |
| | 23⅙ | à Boreo Cornu Tauri ——— | | 381 70 | 15 56 13 | |
| | 26⅔ | ——— rep. | | 381 74 | 15 56 19 | |
| | 36 | à Capellâ paulò altiore — | | 599 38 | 25 02 10 | |
| | 39 | ——— rep. | | 599 40 | 25 02 13 | |
| | | N.B. ♂ *ad eundem in orbita locum redit primum* 1678 *Nov.* 5 } *ad* ☍ } *Nov.* 2. *iterùm* 1680 *Sept.* 24 } *Sept.* 21. *ad quæ Tempora ejus iterùm observanda loca, ut exinde inquiratur methodo* Kepleri, Halleiq. *nostratis, quanta sit excentricitas Orbitæ terrestris, & Aphelij ubi locus.* | | | | |
| MDCLXXVII. | | | | | | |
| ♂ Jan. 9 | 6 38 | *Mars* ——— à Palilicio ——— | | 587 03 | 24 31 15 | |
| | 40½ | ——— rep. | | 586 98 | 24 31 07 | |
| | 48¼ | à Capellâ ——— | | 521 38 | 21 46 28 | *Mars in* 28° *Gemin. Sept. Retrogr.* |
| | 54 | ——— rep. | | 521 23 | 21 46 06 | |
| | 58 | ——— iterùm. | | 521 26 | 21 46 10 | |
| | 7 10 | *Palilicium* ——— à Capellâ ——— | | 735 22 | 30 42 37 | |
| | | ——— rep. | | 735 26 | 30 42 43 | |
| ☽ Mar. 12 | 9 15 | *Mars* ——— ab Humero sequente Aurigæ | | 541 46 | 22 36 54 | |
| | | ——— rep. | | 541 40 | 22 36 45 | |
| | 29 | à Polluce ——— | | 275 33 | 11 29 58 | *Mars in Canc.* 8° *Sept. Dir.* |
| | 33 | ——— rep. | | 275 26 | 11 29 48 | |
| | 47 | *Pollux* ——— ab Humero sequente Aurigæ | | 646 25 | 26 59 40 | |
| | | ——— rep. | | 646 25 | 26 59 40 | |
| ♀ 16 | 9 08 | *Mars* ——— à Corde Leonis ——— | | 1095 23 | 45 44 04 | *Mars in Canc.* 9°½. |
| | 10 41½ | à Castore ——— | | 233 80 | 09 46 04 | |
| ♀ Junij 6 | 9 35 | *Mars* ——— à Regulo ——— | | 83 34 | 03 28 48 | *Mars in Leonis* 22° *Merid. Dir* |
| ♂ 12 | | *Appulsus Martis ad Cor Leonis cum Latitudine majore Septentrionali..* | | | | |
| | 948 | *Mars* ——— à Reg. min. Tub. & Microm. | ♂ c | 5300 = | 43 35 | |
| | 51 | Eadem distantia repetita ——— | ♂ c | 5300 = | 43 35 | |
| | 10 04 | Differentia Azimutharum Martis & Fixæ, – | ♂ a | 720 = | 05 55 | |
| | 07½ | Eadem differentia repetita ——— | ♂ a | 707 = | 05 49 | |
| | 10 | Distantia Martis à Fixa ——— | ♂ c | 5252 = | 43 41 | |
| | | *Sequentes mensium Septembris & Octobris, rogatus à me, fecit D.* Halleius, *Rure enim tùnc aberam valetudinis recuperandæ & firmandæ causa.* | | | | |
| ☿ Sept. 11 *vel* ♃ 12 *mane.* | 17 25½ | *Mars* ——— à Saturno ——— | 24 11 50 | 1255 49 | 52 25 42 | *Mars in Canc.* 17°⅓ *Sept. Dir. Sat. in Gemin.* 21° *Merid. Direct.* |
| ♄ 28 *vel* ☉ 29 *mane.* | 16 54 | *Mars* ——— à Palilicio ——— | 52 25 35 | 1255 49 | 52 25 42 | *Mars in Canc.* 27° *Septent. Direct.* |
| | 17 06½ | ab Humero sequente Orionis | 36 55 10 | 884 06 | 36 55 07 | |

| Anno Christi MDCLXXVIII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ' " | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|
| | | *Mars ad Præſep. appul. Tub. long.* | | | |
| ☿ Oct. 9 | 11 52 | *Mars* ——— & o in eadem latitudine — | | | |
| | | bf ——— | | 3067 = | 00 15 03 |
| | 12 11 | ♂ c ——— | | 701 = | 00 03 30 |
| | 32 | ♂ d ——— | | 785 = | 00 03 55 |
| | 55 | ♂ o ——— | | 1355 = | 00 06 46 |
| | 13 04 | ♂ f ——— | | 2966 = | 00 14 48 |
| | 13 | ♂ c ——— | | 456 = | 00 02 16 |
| | 15 00 | *Martis Limbus proximus diſtitit à ſtella c, oculari æſtimatione vix ultra ipſius Diametrum tunc fuit fixa in eadem Azimutha cum limbo Martis ſequente.* | | | |
| | 15 07 | *Mars ſtellam omnino texerat auſtrina parte Corporis.* | | | |
| | 32 | *Fixa iterùm viſa ad duas Martis diametros à limbo ejus proximo.* | | | |
| | 17 14 | ♂ c iterùm ——— | | 456 = | 00 02 16 |
| | | *Ergo Conjunctio Martis & Fixæ* c, *bora* 15, 13′ ½ *p. m. Planetæ limbus, ſuperior apparenter, vere auſtrimus ſemper apparuit in linea ducta per* o & c. | | | |

*Appulſus Martis ad nebuloſam Cancri dictam Præſepe.*

*Fig. ſitu inverſo deſcripta.*




*Vide diſtantias Fixarum* e, o, c, *in nube à Cauda Leonis & Corde Hydræ ſub Conſtellatione Cancri Feb. 26, & Martii 29, An. 1679.*

| Menſe, Die. | H. M. | | ° ' " | Revol. Cent. | ° ' " |
|---|---|---|---|---|---|
| | | *Redeunte Planeta ab eundem in orbita locum quem tenuerit Decemb. 19° 1676.* | | | |
| ♂ Nov. 4 *vel* ☿ 5 *mane.* | 16 01 | *Mars* ——— ab Auſtrali Cornu Tauri — | 53 52 55 | 1290 31 | 53 52 50 |
| | 06 | ——— rep. | 53 52 55 | 1290 36 | 53 52 57 |
| | 10½ | à Boreali Cornu Tauri — | 55 53 25 | 1338 74 | 55 53 57 |
| | 13 | ——— rep. | 55 53 25 | 1338 78 | 55 54 03 |
| | 19 | à Regulo ——— | 11 26 20 | 273 97 | 11 26 33 |
| | 22 | ——— rep. | 11 26 20 | 273 95 | 11 26 30 |
| | 31½ | àb auſtral. præced. in □ Urſæ Majoris — } β | 43 04 20 | 1031 55 | 43 04 34 |
| | 34½ | ——— rep. | 43 04 20 | 1031 57 | 43 04 31 |
| | 41½ | à Cornu Auſtrali Tauri — | 53 54 10 | 1290 55 | 53 53 26 |

| ANNO CHRISTI MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | *MARTIS* DISTANTIÆ à FIXIS. | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes.* Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☽ Nov. 4 vel ♂ 5 *mane.* | 16 45¾ | *Mars* —— à Cornu Boreo Tauri —— | 55 53 45 | 1338 95 | 55 54 28 | |
| | 55 | à Calce Castoris —— | 43 18 40 | 1037 18 | 43 18 42 | |
| | 59½ | —— rep. | 43 18 40 | 1037 19 | 43 18 43 | |
| | 17 03½ | à lucido pede Geminorum | 40 19 20 | 965 53 | 40 19 07 | |
| | 06⅘ | —— rep. | | 965 49 | 40 19 01 | |
| ☉ 10 vel ☽ 11 *mane* | 16 24 | *Mars* —— ab austrino Cornu Tauri – | 55 53 10 | 1338 75 | 55 53 57 | *Mars in Leonis 15° Sept. Dir.* |
| | 27 | —— rep. | | 1338 75 | 55 53 57 | |
| | 35 | ab austr. præc. in □ Urs. Maj. | 42 53 05 | 1027 08 | 42 53 26 | |
| | 37 | —— rep. | | 1027 08 | 42 53 26 | |
| ☽ Dec. 2 *vel* ♂ 3 *mane.* | 16 01 | *Mars* —— à Calce Castoris —— | 47 08 05 | 1128 82 | 47 08 22 | *Mars in Leonis 21° Sept. Dir. juxta stationem primam.* |
| MDCLXXIX. | | | | | | |
| ♂ Jan. 7 | 9 00 | *Mars* —— à Procyone —— | 32 07 30 | 768 83 | 32 07 05 | *Mars in Leonis 16°½ Sept. Ret.* |
| | 07 | ab Asello austrino —— | 12 59 45 | 311 04 | 12 59 20 | |
| | 17½ | ab Australi præced. in □ Ursæ Majoris —— | 40 45 35 | 976 32 | 40 46 15 | |
| | 31½ | à Boreali trium in Cervice Leonis —— ζ | 09 56::30 | 237 76 | 09 55 54 | |
| ♂ 14 | | *Aere valde tranquillo & sereno, sequentes captæ Planetæ à Fixis Distantiæ investigandi Parallaxin gratia; erat enim tunc Retrogradus, haud procul ab opposito Solis loco: invitatus aderat D.* Halleius, *qui mecum frequenter & nonnunquàm cum* Fabro *meo easdem repetens, certissimas semper & accuratissimas pronuntiavit: testem adhibere in re tantæ subtilitatis omnino duxi necessarium, nec magis idoneum quenquam putavi.* | | | | |
| | 7 45 | *Mars* —— à lucida in Cervice Leonis γ | 11 52 15 | 284 16 | 11 52 02 | *Mars in Leonis 13° 53′ Lat. 4. 47½ B.* |
| | 50 | —— rep. | 11 52 25 | 284 24 | 11 52 14 | |
| | 54½ | —— iterùm. | 11 52 30 | 284 26 | 11 52 07 | |
| | 8 01¼ | ab australi præcedentium in □ Ursæ Majoris – | 40 36 40 | 972 73 | 40 37 10 | |
| | 07½ | —— rep. | 40 36 45 | 972 78 | 40 37 18 | |
| | 16⅘ | à lucid. in Cerv. Leonis iter. | 11 52 45 | 284 40 | 11 52 37 | |
| | 22½ | —— rep. | 11 52 50 | 284 44 | 11 52 43 | |
| | 35½ | à Regulo —— | 12 06 15 | 289 63 | 12 05 45 | |
| | 39¾ | —— rep. | 12 06 25 | 289 68 | 12 05 52 | |
| | 45 | ab Austr. in Cervice Leonis η | 09 27 35 | 226 33 | 09 27 18 | |
| | 48⅛ | —— rep. | 09 27 30 | 226 28 | 09 27 11 | |
| | | *Deinde post mediam noctem.* | | | | |
| | 16 37½ | *Mars* —— à Regulo —— | 12 14 45 | 293 07 | 12 14 21 | |
| | 44½ | ab austr. in Cervice Leonis η | 09 35 20 | 229 74 | 09 35 50 | |
| | 55 | —— rep. | 09 35 10 | 229 68 | 09 35 41 | |
| | 17 07 | à lucida Cervicis —— γ | 12 00 45 | 287 89 | 12 01 22 | |
| | 15 | —— rep. | 12 00 45 | 287 90 | 12 01 24 | |
| | 22⅔ | —— iterùm. | 12 00 55 | 287 94 | 12 01 30 | |
| | 18 04 | —— | 12 01 25 | 288 16 | 12 02 03 | |
| | 17½ | —— | 12 01 30 | 288 19 | 12 02 08 | |
| | | *Ad inquirendam Planetæ & exinde Solis Parallaxin.* | | | | |

| | ANNO CHRISTI MDCLXXIX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | *Diſtantiæ per lineas diagonales.* ° ′ ″ | *Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes.* Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | *Breviores hæ Diſtantiæ inſtituto noſtro commodiores videbantur latioribus, quippe minus eſſent à refractionibus vitiatæ: habuit etiam quævis intercapedo, peculiare ſibi & prævisum commodum; Lucida enim in Cervice Leonis eandem ferè cum Planeta declinationem obtinuit; unde ablatum refractionis periculum in æqualibus à meridiano diſtantiis; Auſtralis in cervice η, eandem fere Latitudinem, ergo ob Incrementum Latitudinis vix mutata Diſtantia. Auſtralis præcedentium in □° Urſæ Majoris, Longitudine provectior eſt unum duntaxat gradum, è qua propterea Planetæ capta Diſtantia optime ipſius Latitudinem, & tùnc ferè maximam oſtendit; aberat enim haud procul à Limite, & ſeptem ſummum gradus ab oppoſitione Solis: denique, Cor Leonis, quod in obſervatione veſpertina haud longè diſtitit à verticali per Planetam tranſeunte, ſequente matutina eandem ferè Altitudinem cum eo ſortiebatur; unde perexigua Parallaxis aut, refractionum vis hanc corrupit, tota in illa ſe exeruit, nèc difficili Calculo diſpertienda.* | | | |
| *Mars in Leonis 6° Septent. 8, poſt Oppoſitionem Solis, Dies.* | ♂ Jan. 28 | 6 15 | *Mars* —— ab Afello Boreo —— | 05 35 10 | 133 26 | 05 34 10 |
| | | 20⅓ | —— rep. | | 133 22 | 05 34 04 |
| | | 26 | —— iterum. | | 133 26 | 05 34 10 |
| | | 28 | —— optime | | 133 20 | 05 34 01 |
| | | 44½ | à Boreali duar. in pede ſeq. præc. Urſæ Maj. λ | 26 06 55 | 625 34 | 26 07 16 |
| | | 57⅓ | ab auſtr. præced in □° Urſæ Majoris —— | 45 11 20 | 1082 32 | 45 11 44 |
| | ♄ Feb. 1 | 8 39 | *Mars* —— à lucido pede Gemini —— | 34 12 45 | 819 04 | 34 12 31 |
| *Mars in Leonis 5°.* | ♀ 7 | 7 07½ | *Mars* —— ab Afello Boreo —— | 02 20 30 | 056 06 | 02 20 27 |
| | | 13½ | —— rep. | 02 20 30 | 056 13 | 02 20 37 |
| | | 17⅓ | —— iter. | 02 20 10 | 056 01 | 02 20 19 |
| | | | *Hanc diſtantiam ut etiam præcedentem 28 Januar. repetere conſtituiſſem parallaxeos gratia, ſed nubes utraſque mihi ſubduxère opportunitates.* | | | |
| *Mars in Leonis 2° ½.* | ☽ 17 | 7 02 | *Mars* —— à lucido pede Gemini —— | 30 10 05 | 722 06 | 30 09 40 |
| *Mars Ret. 4. dies ante ſtationem.* | ♃ 27 | 10 46 | *Mars* —— à Cauda Leonis —— | 45 37 15 | 1092 76 | 45 37 54 |
| *Mars Dir. in Leonis 2° ¼.* | ♂ Mar. 11 | 8 16½ | *Mars* —— à Calce Caſtoris —— | 31 46 25 | 761 01 | 31 47 30 |

| Anno Christi MDCLXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Mar. 26 | 10 30 | *Mars* —— à Regulo —— | 20 24 30 | 488 80 | 20 24 33 | |
| | 43 | à Boreali in præced. pedum poster. Urs. Maj. } λ | 28 44 45 | 688 38 | 28 45 22 | *Mars in Leonis 2° ¼.* |
| | | *Planeta erat ad Dextram à Verticali per Fixam transeunte.* | | | | |
| ♃ Maij 22 | 9 37 | *Mars* —— à Spica Virginis —— | 51 30 10 | 1233 50 | 51 30 40 | *Mars in Leonis 25° Sept. Dir.* |
| ☽ Julij 28 | 8 25 | *Mars* —— à Spica Virginis —— | 13 08::00 | 314 47 | 13 07 54 | |
| | 30 | —— rep. | 13 08::00 | 314 47 | 13 07 54 | |
| MDCLXXX. | | | | | | |
| ♃ Julij 22 | 14 34 | *Mars* —— à lucida Plejadum —— | 35 41 20 | 854 44 | 35 41 01 | |
| *vel* ♀ 23 | 44½ | à Castore —— | 17 29 35 | 419 01 | 17 29 35 | *Mars in Canc. 1° Sept. Dir.* |
| *mane.* | 56 | à lucido latere Persei —— | 43 27 45 | 1040 72 | 43 27 33 | |
| ☉ 25 | 15 26 | *Mars* —— à Palilicio —— | 28 22 10 | 679 11 | 28 22 07 | |
| *vel* ☽ 26 *mane.* | 28 | —— rep. | 28 22 20 | 679 17 | 28 22 16 | |
| ☿ Aug. 18 | 14 46 | *Mars* —— à Calce Castoris —— | 17 48 35 | 426 68 | 17 48 48 | *Mars in Canc. 18° ½ Sept. Dir.* |
| *vel* ♃ 19 | 15 07 | à Polluce —— | 05 53 35 | 141 25 | 05 54 10 | |
| *mane.* | | *Pollux* —— à Calce Castoris —— | 19 26 15 | 465 59 | 19 26 21 | |
| ☉ Sept. 5 | 15 56 | *Mars* —— à Calce Castoris —— | 29 00 45 | 654 47 | 29 00 35 | |
| *vel* ☽ 6 | 58 | —— rep. | 29 00 45 | 694 45 | 29 00 32 | |
| *mane.* | 16 02 | à Polluce —— | 12 19 55 | 295 41 | 12 20 12 | *Mars in Canc. 29° ½ Sept. Direct.* |
| | 04 | —— rep. | 12 20 00 | 295 43 | 12 20 15 | |
| | 09 | à Procyone —— | 18 53 15 | 452 39 | 18 53 12 | |
| | 12 | —— rep. | 18 53 15 | 452 40 | 18 53 13 | |
| | 18⅓ | *Pollux* —— à Procyone —— | 22 45 10 | 544 83 | 22 45 36 | |
| | | —— rep. | 22 45 00 | 544 82 | 22 45 27 | |
| ♃ 16 | 15 02½ | *Mars* —— à Castore —— | 22 19 50 | 534 61 | 22 19 48 | |
| *vel* ♀ 17 | 04 | —— rep. | 22 19 45 | 534 58 | 22 19 43 | |
| *mane.* | 08¼ | à Procyone —— | 22 38 30 | 542 13 | 22 38 40 | *Mars in Leonis 6° Sept. Dir.* |
| | 13¼ | —— rep. | 22 38 40 | 542 22 | 22 38 54 | |
| | 17 | ab Asello Austrino —— | 02 23 50 | 57 62 | 02 24 22 | |
| | 46 | —— rep. | 02 24 30 | 57 82 | 02 24 53 | |
| | | *Redibat Martis Sydus ad locum in Orbita quam tenuit in Observatione, Dec. 16. 1676. & Nov. 5. 1678, Die 24. hujus Mensis. Matutinis autem temporibus à die 16 ad 25 adeo densæ nobis & fætidæ fuere nebulæ, ut vix interea Planetam semel conspicere potueram, tùnc autem Distantiæ Captæ* | | | | |
| ♄ 25 | 15 38½ | *Martis* —— ab Asello Austrino —— | 07 32 05 | 180 22 | 07 31 50 | *Mars in Leonis 11° ½ Sept. Direct.* |
| *vel* ☉ 26 | 42 | —— rep. | 07 32 40 | 180 43 | 07 32 21 | |
| *mane.* | 49 | —— iter. | 07 32 50 | 180 50 | 07 32 28 | |
| ♂ 28 | 17 46 | *Mars* —— à Calce Castoris —— | 42 41 15 | 1022 30 | 42 41 24 | |
| *vel* ☿ 29 | 50 | ab Austrino Cornu Tauri | 53 15 40 | 1275 55 | 53 15 57 | *Mars in Leonis 13° Sept. Dir.* |
| *mane.* | 52 | à Cornu Boreo Tauri —— | 55 23 20 | 1326 80 | 55 24 06 | |
| | 55 | à Calce Castoris iterùm —— | 42 41 25 | 1022 35 | 42 41 32 | |
| | 57½ | —— rep. | 42 41 25 | 1022 37 | 42 41 35 | |

| | Anno Christi MDCLXXX. Mense, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| *Mars in Leonis 20° Sept. Dir.* | ☽ Oct. 11 *vel* ♂ 12 *mane.* | 17 02 | *Mars* ——— | à Polluce ——— | 32 17 45 | 772 96 | 32 17 16 |
| | | 06 | | ——— rep. | 32 17 40 | 772 94 | 32 17 12 |
| | | 11 | | à Boreâ in Cervice Leonis ζ | 10 34 40 | 253 47 | 10 35 13 |
| | | 14 | | ——— rep. | 10 34 30 | 253 42 | 10 35 06 |
| | | 20 | *Pollux* ——— | à Borea in Cervice Leonis ζ | 34 12 20 | 818 92 | 34 12 12 |
| *Mars in Leonis 20° Sept. Dir.* | ☽ 25 *vel* ♂ 26 *mane.* | 17 28 | *Mars* ——— | à Polluce ——— | 39 38 20 | 949 57 | 39 39 06 |
| | | 30 | | ——— rep. | 39 38 20 | 949 56 | 39 39 05 |
| | | 37 | | à Boreal. 2arum in Pede posteriore Ursæ Maj. ν | 24 40 45 | 591 17 | 24 41 36 |
| | | 39 | | ——— rep. | 24 40 35 | 591 12 | 24 41 28 |
| | | 43 | *Pollux* ——— | à Boreal. 2arum in Pede poster. Ursæ Major. ν | 45 37 25 | 1092 83 | 45 38 05 |
| *Mars in Virginis 11° ½ Sept. Dir.* | ☽ Nov. 22 *vel* ♂ 23 *mane.* | 17 52 | *Mars* ——— | à Regulo ——— | 16 16 40 | 389 93 | 16 16 45 |
| | | 18 00 | | ——— rep. | 16 16 40 | 389 92 | 16 16 44 |
| | | 05 | | à lucidâ in lumbis Leonis δ | 12 56 25 | 309::82 | 12 56 15 |
| | | 12 | *Regulus* ——— | à lucidâ in lumbis Leonis δ | 17 53 35 | 428 89 | 17 54 20 |
| | ♀ Dec. 10 | 17 21 | *Mars* ——— | à Corde Leonis ——— | 23 03 10 | 551 87 | 23 03 09 |
| | ☉ 12 | 18 11½ | *Mars* ——— | à Corde Leonis ——— | 23 41 40 | 567 46 | 23 42 14 |
| | | 18 | | à Caudâ Leonis ——— | 09 43 55 | 233 39 | 09 44 59 |
| | | 24½ | *Cor Leonis* ——— | à Cauda ——— | 24 38 30 | 590 30 | 24 39 24 |
| | | 28 | *Mars* ——— | à Corde ——— repet. | 23 41 50 | 567 63 | 23 42 37 |
| | MDCLXXXI. | | | | | | |
| *Mars in Virginis 23° Sept. Ret.* | ☉ Jan. 23 *vel* ☽ 24 *mane.* | 16 33 | *Mars* ——— | à Regulo ——— | 28 44 10 | 688 19 | 28 44 51 |
| | | 35 | | ——— rep. | 28 44 05 | 688 20 | 28 44 52 |
| *Mars in Virginis 15° Sept. Ret.* | ♂ Feb. 22 | 9 14⅓ | *Mars* ——— | à Regulo ——— | 20 17 20 | 485 87 | 20 17 21 |
| | | 16 | | ——— rep. | 20 17 10 | 485 81 | 20 17 12 |
| | | 18½ | | ——— iter. | 20 17 15 | 485 84 | 20 17 16 |
| *Marte Acronico. Ret. Bor. in Virginis 15° Lat. 4° B.* | ♀ Feb. 23 | 9 03 | *Mars* ——— | à Regulo ——— | 19 53 40 | 476 60 | 19 54 00 |
| | | 06 | | ——— rep. | 19 53 45 | 476 62 | 19 54 03 |
| | | 08 | | à lucida in Cervice Leonis γ | 20 17 25 | 485 93 | 20 17 30 |
| | | 11⅓ | | ——— rep. | 20 17 25 | 485 93 | 20 17 30 |
| | | 17¼ | | à Caudâ Leonis ——— | 08 31 50 | 204 16 | 08 31 48 |
| | | 18½ | | ——— rep. | 08 31 55 | 204 19 | 08 31 52 |
| | | 40 | *Cauda Leonis* — | à lucida Cervicis ——— | 21 57 45 | 525 84 | 21 57 45 |
| | | | | ——— meliùs repet. | 21 57 55 | 525 93 | 21 57 58 |
| *Mars in Virginis 11° Ret. Sept.* | ♄ Mar. 5 | 7 52⅓ | *Mars* ——— | à Cauda Leonis ——— *Tunc densæ nubes.* | 10 21 15 | 247 92 | 10 21 20 |
| *Mars in Virginis 10° Ret. Sept.* | ♂ 8 | 8 15 | *Mars* ——— | à Leonis ——— σ | 04 35::00 | 109 77 | 04 35 14 |
| | | 20½ | | ——— rep. | 04 35 30 | 109 95 | 04 35 40 |
| | | 22½ | | ——— iter. | 04 35 30 | 109 96 | 04 35 42 |
| | | 26⅓ | | à Leonis ——— ι | 03 47 10 | 90 64 | 03 47 13 |
| | | 29⅓ | | ——— rep. | 03 47 20 | 90 76 | 03 47 31 |
| | | 32⅓ | | ——— iter. | 03 47 30 | 90 79 | 03 47 36 |
| | | 37¼ | | à Caudâ Leonis ——— | 11 03 40 | 264 83 | 11 03 39 |
| | | 39¼ | | ——— rep. | 11 03 40 | 264 85 | 11 03 42 |
| | | 40½ | | ——— iter. | 11 03 40 | 264 83 | 11 03 39 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Mar. 9 | 8 33¼ | Mars ——— à Leonis Cauda ——— β | 11 17::20 | 270 41 | 11 17 36 | Mars in Virg. 09° Ret. Sept. |
| | 36¼ | ——— rep. | 11 17 50 | 270 55 | 11 17 57 | |
| | | ——— iterùm | 11 17 50 | 270 54 | 11 17 56 | |
| | 43⅞ | à Leonis ——— ι | 04 04 35 | 097 59 | 04 04 39 | |
| | 46¼ | ——— rep. | 04 04 35 | 097 60 | 04 04 40 | |
| | 51¼ | à Leonis ——— σ | 04 53 05 | 117 10 | 04 53 36 | |
| | 54⅓ | ——— rep. | 04 53 05 | 117 11 | 04 53 37 | |
| | 56½ | ——— iterùm | 04 53 15 | 117 15 | 04 53 43 | |
| | 9 00 | à Lucidâ Cervicis Leonis γ | 15 26 00 | 369 70 | 15 26 06 | |
| | 02⅛ | ——— rep. | 15 26 00 | 369 73 | 15 26 10 | |
| | 05⅜ | à Regulo ——— α | 14 44 10 | 353 03 | 14 44 24 | |
| | 07⅞ | ——— rep. | 14 44 15 | 353 09 | 14 44 33 | |
| | | *Deinde post mediam noctem sequentem pro Parallaxi, repetita.* | | | | |
| | 15 55⅓ | Mars ——— à Leonis ——— σ | 04 59 10 | 119 25 | 04 59 00 | |
| | 16 01⅓ | ——— rep. | 04 59 10 | 119 25 | 04 59 00 | |
| | 04⅓ | à lucida in Cervice Leonis γ | 15 21 05 | 367 79 | 15 21 20 | |
| | 07 | ——— rep. | 15 21 05 | 367 74 | 15 21 12 | |
| | 09 | ——— iterùm | 15 20 55 | 367 66 | 15 21 00 | |
| | 16⅓ | à Cauda Leonis ——— | 11 21 10 | 271 99 | 11 21 34 | |
| | 19⅓ | ——— rep. | 11 21 10 | 272 00 | 11 21 36 | |
| ☿ 23 | 9 02½ | Mars ——— à Regulo ——— | 11 12 50 | 268 46 | 11 12 44 | Mars in Virg. 6° Sept. Ret. |
| | 04⅜ | ——— rep. | 11 12 50 | 268 45 | 11 12 42 | |
| | 10⅓ | à lucida in Lumbis Leonis – | 11 12 30 | 268 45 | 11 12 42 | |
| | 14 | ——— rep. | 11 12 35 | 268 39 | 11 12 33 | |
| ♃ 31 | 8 30 | Mars ——— à Regulo ——— | 10 15 40 | 245 69 | 10 15 45 | Mars in Virg. 5° Sept. Ret. |
| | 42 | à lucida in Lumbis Leonis δ | 11 37 45 | 278 62 | 11 38 09 | |
| | 52 | *Regulus* ——— à lucida in Lumbis Leonis δ | 17 53 55 | 428 96 | 17 54 30 | |
| ♃ Apr. 21 | 9 18 | Mars ——— à Regulo ——— | 11 28 55 | 275 07 | 11 29 16 | Mars in Virg. 6° Sept. Dir. |
| | 20½ | ——— rep. | 11 28 50 | 275 05 | 11 29 13 | |
| | 26 | à lucida in Lumbis Leonis δ | 12 24 05 | 297 35 | 12 25 03 | |
| | 27½ | ——— rep. | 12 23 55 | 297 27 | 12 24 51 | |
| ♀ Maij 13 | 9 52 | Mars ——— à Regulo ——— | 17 24 00 | 416 97 | 17 24 28 | Mars in Virg. 12° Sept. Dir. |
| | 54 | ——— rep. | 17 24 00 | 417 02 | 17 24 36 | |
| ♄ 28 | 10 19 | Mars ——— à Spica Virginis ——— | 30 47 55 | 737 29 | 30 47 59 | Mars in Virg. 18° 41′ Lat. Bor. 0° 45′. per Eph. Kirkii. |
| | 21 | ——— rep. | 30 47 55 | 737 29 | 30 47 59 | |
| ♀ Junij 10 | 10 11⅓ | Mars ——— à Spica Virginis ——— | 24 48 05 | 593 79 | 24 48 09 | Mars in Virg. 24° Sept. Dir. |
| | 13⅓ | ——— rep. | 24 48 05 | 593 81 | 24 48 12 | |
| MDCLXXXII. | | | | | | |
| ♀ Julij 28 *vel* ♄ 29 *mane.* | 14 49 | Mars ——— à Calce Castoris ——— | 17 12 25 | 412 23 | 17 12 36 | Mars in Gem. 18° Sept. Dir. |
| | 53½ | ——— rep. | 17 12 50 | 412 37 | 17 12 57 | |
| | 15 27½ | ——— iterùm | 17 14 50 | 413 15 | 17 14 54 | |
| | 30½ | ——— denuo | 17 15 00 | 413 25 | 17 15 09 | |
| | 35 | à Palilicio ——— | 43 05 15 | 1031 70 | 43 04 57 | |
| | 38 | ——— rep. | 43 05 25 | 1031 71 | 43 04 58 | |
| | 16 02 | ——— iterùm | 43 06 25 | 1032 12 | 43 06 00 | |
| | 06½ | ——— denuo | 43 06 30 | 1032 14 | 43 06 03 | |
| ♀ Sept. 8 *vel* ♄ 9 *mane.* | 16 21 | Mars ——— à Calce Castoris ——— :: | 43 53 00 | 1050 89 | 43 53 02 | Mars in Leo. 14° Sept. Dir. |
| | 23 | ——— rep. | 43 53 45 | 1051 00 | 43 53 18 | |
| | 40½ | ab ε Leonis ——— | 08 37 50 | 206 66 | 08 38 02 | |

| | Anno Christi MDCLXXXII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♀ Sept. 8 vel ♄ 9 *mane.* | 16 42¼ | *Mars* — ab ε Leonis — rep. | 08 37 50 | 206 65 | 08 38 02 |
| | | | *Juxta erant Saturnus & Jupiter, Vide illorum Obſervationes.* | | | |
| | | 17 01 | *Mars* — à Calce Caſtoris — iter. | 43 54 55 | 1051 45 | 43 54 25 |
| | | 02½ | — rep. | 43 54 55 | 1051 50 | 43 54 33 |
| *Mars in Leon. 22° Sept. Dir.* | ♃ 21 *vel* ♀ 22 *mane.* | 17 23 | *Mars* — à Regulo — | 02 48 45 | 067 39 | 02 48 52 |
| | | 25 | — rep. | 02 48 35 | 067 35 | 02 48 46 |
| | | 31 | à Calce Caſtoris — | 51 54 10 | 1242 81 | 51 54 02 |
| | | 32 | — rep. | 51 54 10 | 1242 84 | 51 54 06 |
| *Mars. in Virg. 20° Sept. Dir.* | ♂ Nov. 7 *vel* ♀ 8 *mane.* | 17 18 | *Mars* — à lucida in Lumbis Leonis ♌ | 18 15 45 | 437 33 | 18 15 30 |
| | | 22 | à Vindemiatrice — | 20 54 30 | 500 82 | 20 55 00 |
| | | 27 | *Vindemiatrix* — à lucida in Lumbis Leonis ♌ | 27 40 45 | 662 64 | 27 40 52 |
| | | 30 | *Mars* — à Regulo — | 24 49 45 | 594 44 | 24 49 47 |
| | | 31½ | — rep. | 24 49 40 | 594 42 | 24 49 43 |
| | | 34 | à Jove — | 28 42 10 | 687 05 | 28 42 00 |
| *Mars in Virg. 21° Sept. Dir.* | ♃ 9 *vel* ♀ 10 *mane.* | 18 10 | *Mars* — à Regulo — | 25 57 30 | 621 33 | 25 57 14 |
| | | 14 | — rep. | 25 57 25 | 621 32 | 25 57 12 |
| | | 16 | à Jove — | 29 42 45 | 711 18 | 29 42 24 |
| | | 18 | à Saturno — | 31 02 00 | 742 84 | 31 01 55 |
| | | 29 | à Regulo — | 25 57 50 | 621 50 | 25 57 39 |
| | | 19 03 | — rep. | 25 58 45 | 621 88 | 25 58 36 |
| | | 05 | — iter. | 25 58 45 | 621 85 | 25 58 31 |
| *Mars in Virg. 23° Sept. Dir.* | ☉ 12 *vel* ☽ 13 *mane* | 18 26 | *Mars* — à lucida in Lumbis Leonis ♌ | 20 18 50 | 486 45 | 20 18 48 |
| | | 28 | — rep. | 20 18 45 | 486 42 | 20 18 43 |
| | | 36½ | à Vindemiatrice — | 18 59 40 | 455 10 | 19 00 00 |
| | | 39 | — rep. | 18 59 40 | 455 12 | 19 00 03 |
| | | | *Vide Fixarum Diſtantiam inter Obſervationes Lunæ eodem mane factas.* | | | |
| *Mars in Virg. 27° Sept. Dir.* | ♂ 21 *vel* ☿ 22 *mane.* | 18 17 | *Mars* — à Jove — | 35 47 05 | 856 63 | 35 46 30 |
| | | 19 | — rep. | 35 47 15 | 856 67 | 35 46 34 |
| | | 22 | à Regulo — | 32 28 50 | 777 41 | 32 28 22 |
| | | 23½ | — rep. | 32 28 50 | 777 43 | 32 28 25 |
| *Mars in Lib. 14° Sept. Dir.* | ☽ Dec. 25 | 18 22 | *Mars* — à Regulo — | 49 09 30 | 1177 07 | 49 09 18 |
| | | 25 | — rep. | 49 09 40 | 1177 13 | 49 09 27 |
| | | | Hac vice erat Mars in conſequentia θ Virginis cujus a Regulo tunc capta Diſtantia. | 48 23 30 | 1158 83 | 48 23 33 |
| | MDCLXXXIII. | | | | | |
| *Mars in Lib. 29° Sept. Ret.* | ♄ Mar. 3 | 10 52 | *Mars* — à Spica Virginis — | 11 03 35 | 264 75 | 11 03 27 |
| | | 54 | — rep. | 11 03 35 | 264 75 | 11 03 27 |
| *Mars in Lib. 26° Sept. Ret.* | ☽ 19 | 9 53½ | *Mars* — à Spica Virginis — | 08 00 10 | 191 47 | 08 00 02 |
| | | 56 | — rep. | 08 00 10 | 191 45 | 08 00 00 |
| *Mars in Lib. 23° Sept. Ret.* | ☽ 26 | 12 12 | *Mars* — à Regulo — | 58 14 50 | 1395 16 | 58 14 55 |
| | | 14½ | — rep. | 58 15 00 | 1395 25 | 58 15 09 |
| | | 21 | ab Arcturo — | 28 53 00 | 691 57 | 28 53 18 |
| | | 24 | — rep. | 28 53 00 | 691 57 | 28 53 18 |
| | | 29½ | à Regulo — | 58 14 45 | 1395 12 | 58 14 50 |
| | | 33 | — rep. | 58 14 35 | 1395 04 | 58 14 38 |
| | | 38 | ab Auſtrina Lance Libræ — | 17 06 15 | 409 72 | 17 06 15 |

| Anno Christi MDCLXXXIII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ☽ Mar. 26 | 12 40½ | *Mars* | ab Auſtrina Lance Libræ rep. | 17 06 15 | 409 69 | 17 06 13 | *Mars in Leonis 29° Sept. Dir.* |
| | 45 | *Arcturus* | ab Auſtrali Lance Libræ | 36 24 25 | 871 57 | 36 23 52 | |
| ♃ 29 | 13 49 | *Mars* | ab infima in Cingulo Virg. | 16 47 05 | 401 97 | 16 46 54 | *Mars in Lib. 22° Sept. Ret.* |
| | 51 | | rep. | 16 47 15 | 402 06 | 16 47 07 | |
| ♀ 30 | 12 38 | *Mars* | à Regulo | 56 46 50 | 1359 93 | 56 46 54 | *Mars in Lib. 22° 04′ Lat. Sept. .° 12′ Sol. in Arietis 20° 20′.* |
| | 41 | | rep. | 56 46 45 | 1359 89 | 56 46 48 | |
| | 45½ | | ab Arcturo | 28 51 35 | 691 01 | 28 51 55 | |
| | 47 | | rep. | 28 51 35 | 691 00 | 28 51 53 | |
| | 13 24 | | iter. | 28 51 35 | 691 00 | 28 51 53 | |
| | 30 | | à Regulo | 56 45 30 | 1359 51 | 56 45 53 | |
| | 36 | | ab Auſtrina Lance Libræ | 18 34 10 | 444 73 | 18 34 02 | |
| | 38 | | rep. | 18 34 15 | 444 78 | 18 34 09 | |
| ☽ Apr. 2 | 10 45 | *Mars* | à Regulo | 55 40 20 | 1333 38 | 55 40 33 | *Mars in Lib. 21° Sept. Ret. Oppoſ. Solis.* |
| | 48 | | rep. | 55 40 25 | 1333 42 | 55 40 39 | |
| | 52 | | ab Arcturo | 28 53 45 | 691 85 | 28 54 00 | |
| | 54 | | rep. | 28 53 55 | 691 92 | 28 54 10 | |
| ♃ 19 | 9 36 | *Mars* | à Regulo | 49 44 45 | 1191 28 | 49 44 51 | *Mars in Lib. 15° Sept. Ret.* |
| | 38½ | | rep. | 49 44 55 | 1191 26 | 49 44 48 | |
| ♀ 27 | 9 39 | *Mars* | à Regulo | 47 48 45 | 1145 03 | 47 48 57 | *Mars in Lib. 13° Sept. Ret.* |
| | 40 | | rep. | 47 48 35 | 1144 98 | 47 48 50 | |
| ♃ Maij 3 | 10 22 | *Mars* | à Prima Alæ Virginis | 19 39 05 | 470 68 | 19 39 08 | *Mars in Lib. 12° Sept. Ret.* |
| ♃ 17 | 10 33 | *Mars* | à Prima Alæ Virginis | 19 23 10 | 464 46 | 19 23 30 | *Mars in Lib. 12° Sept. Dir.* |
| | 36 | | rep. | 19 23 15 | 464 42 | 19 23 24 | |
| ♂ 22 | 9 55 | *Mars* | à Regulo | 47 08 10 | 1128 80 | 47 08 18 | *Mars in Lib. 12° Sept. Dir.* |
| | 58 | | rep. | 47 08 15 | 1128 84 | 47 08 24 | |
| ♃ 31 | 10 00 | *Mars* | à Prima Alæ Virginis | 21 31 50 | 515 53 | 21 31 50 | *Mars in Lib. 14° Mer. Dir.* |
| | 10 03 | | rep. | 21 31 55 | 515 53 | 21 31 50 | |
| ☽ Junij 25 | 9 38 | *Mars* | à Borea in Fronte Scorpii | 36 21 35 | 870 59 | 36 21 25 | *Mars in Lib. 22° Mer. Dir.* |
| | 41 | | rep. | 36 21 35 | 870 59 | 36 21 25 | |
| ♂ Julij 10 | 9 41 | *Mars* | ab Antare | 36 03 00 | 863 13 | 36 02 50 | *Mars in Lib. 29° Mer. Dir.* |
| | 44 | | rep. | 36 03 00 | 863 15 | 36 02 53 | |
| ☉ Oct. 14 | 6 20 | *Mars* | à ſeq. in Cauda Capricorni | 47 38 10 | 1140 75 | 47 38 13 | *Mars in Capr. 1° Mer. Dir.* |
| | 30 | | à Capite Ophiuchi | 39 28 50 | 945 31 | 39 28 24 | |
| | 31 | | rep. | 39 28 50 | 945 30 | 39 28 22 | |
| | 39 | | à ſeq. in Cauda Capric. rep. | 47 36 55 | 1140 23 | 47 36 55 | |
| ♃ Nov. 15 | 6 11 | *Mars* | à ſeq. in Cauda Capricorni | 23 24 40 | 560 46 | 23 24 40 | *Mars in Capr. 25° Mer. Dir.* |
| | 13 | | rep. | 23 24 30 | 560 37 | 23 24 27 | |
| ☽ Dec. 3 | 5 25 | *Mars* | à ſeq. in Cauda Capricorni | 09 34 40 | 229 34 | 09 34 50 | *Mars in Aquar. 9° Mer. Dir.* |
| | 28 | | rep. | 09 34 45 | 229 36 | 09 34 53 | |
| | 32 | | à λ in Aqua Aquarii | 27 32 05 | 659 37 | 27 32 40 | |
| | 34 | | rep. | 27 31 55 | 659 29 | 27 32 28 | |
| ♂ Dec. 25 | 6 03 | *Mars* | ab *n*, clar. in Lino Bor. Piſc. | 55 53 25 | 1338 73 | 55 53 55 | *Mars in Aquar. 16° Mer. Dir.* |
| | 05 | | rep. | 55 53 05 | 1338 58 | 55 53 33 | |

| | ANNO CHRISTI MDCLXXXIV. Menſe, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Mars in Piſc. 4° ½ Merid. Direct.* | ♄ Jan. 5 | 5 26 | *Mars* ——— ab ν Piſcium ——— | 47 25 40 | 1135 83 | 47 25 54 |
| | | 29 | ——— rep. | 47 25 30 | 1135 76 | 47 25 44 |
| | | 32 | à lucida Arietis ——— | 58 38 05 | 1404 45 | 58 38 07 |
| | | 35 | ——— rep. | 58 37 55 | 1404 38 | 58 38 00 |
| | | 38 | ab Ore Pegaſi ——— | 24 15 50 | 580 90 | 24 15 52 |
| | | 40 | ——— rep. | 24 15 45 | 580 87 | 24 15 48 |
| *Mars in Piſc. 27° ½ Merid. Direct.* | ☉ Feb. 3 | 5 52 | *Mars* ——— à prima Arietis ——— | 36 53 45 | 883 74 | 36 54 20 |
| | | 53 | ——— rep. | 36 53 45 | 883 72 | 36 54 17 |
| *Mars in Ariet. 15° ½ Merid. Direct.* | ☿ 27 | 6 25 | *Mars* ——— à Ven. revera Auſt. 5850 = | 00 29 10 | ✱♀ | |
| | | 28 | ——— rep. 5870 = | 00 29 20 | ♂✱ | |
| | | | *Tubo Pedum 16.* | | | |
| *Mars in Ariet. 17° Merid. Direct.* | ♀ 29 | 7 12 | *Mars* ——— à Palilicio ——— | 48 11 25 | 1154 14 | 48 11 32 |
| | | 14 | ——— rep. | 48 11 10 | 1154 04 | 48 11 17 |
| *Mar in Virg. 20° ½ Sept. Direct.* | ♂ Oct. 14 vel ☿ 15 *mane.* | 17 22 | *Mars* ——— à Regulo ——— | 24 31 20 | 587 03 | 24 31 15 |
| | | 24 | ——— rep. | 24 31 20 | 587 07 | 24 31 20 |
| *Mars in Virg. 27° Sept. Dir.* | ☉ 26 | 18 37 | *Mars* ——— à Regulo ——— | 31 53 50 | 763 47 | 31 53 31 |
| | | 39 | ——— rep. | 31 53 55 | 763 53 | 31 53 40 |
| | MDCLXXXV. | | | | | |
| *Mars in Sagit. 11° ½ Sept. Dir.* | ☉ Mar. 22 | 15 54 | *Mars* ——— ab Auſtrali Lance Libræ— | 30 46 25 | 736 67 | 30 46 25 |
| | | 57 | ——— rep. | 30 46 30 | 736 69 | 30 46 27 |
| | | 16 02 | ab Ophiuchi Yed ——— | 21 23 45 | 512 25 | 21 23 37 |
| | | 05 | ——— rep. | 21 23 35 | 512 17 | 21 23 25 |
| | | 11 | ab Aquilæ lucidâ ——— | 52 15 35 | 1251 50 | 52 15 46 |
| | | 14 | ——— rep. | 52 15 30 | 1251 45 | 52 15 39 |
| *Mars in Sagit. 8° Merid. Ret. Oppoſ. ſolis.* | ☉ Maij 17 | 14 29 | *Mars* ——— à ſuprema in Capite Sagit. | 34 15 00 | 820 06 | 34 15 03 |
| | ♀ 22 | 11 43 | *Mars* ——— à Spica Virginis ——— | 46 38 00 | 1116 59 | 46 37 42 |
| *Mars in Sagit. 6° Merid Ret.* | | 46 | ——— rep. | 46 37 50 | 1116 57 | 46 37 39 |
| | | 12 07 | ab ultima in Capite Sagittarij | 35 56 20 | 860 24 | 35 55 32 |
| | | 12 | ——— rep. | 35 56 25 | 860 39 | 35 55 54 |
| *Mars in Sagit. 6° Merid. Ret.* | ♄ 23 | 10 32 | *Mars* ——— à Spica Virginis ——— | 46 18 40 | 1108 84 | 46 18 15 |
| *Mars in Sagit. 23° Merid. Direct.* | ☉ Aug. 30 | 7 41 | *Mars* ——— ab ultima in Capite Sagittarij | 16 39 20 | 398 98 | 16 39 24 |
| | | 43½ | ——— rep. | 16 39 10 | 398 90 | 16 39 12 |
| *Mars in Capr. 19° ½ Merid. Direct.* | ♄ Oct. 10 | 7 24 | *Mars* ——— ab Aquarij λ ——— | 47 29 40 | 1137 31 | 47 29 36 |
| | | 36 | ——— rep. | 47 29 15 | 1137 00 | 47 28 50 |
| *Mars in Capr. 28° Merid. Direct.* | ♃ Oct. 22 | 6 14 | *Mars* ——— ab Aquarij λ ——— | 39 02 45 | 935 08 | 39 02 45 |
| | | 17 | ——— rep. | 39 02 45 | 935 06 | 39 02 42 |
| *Mars in Aquar. 9° Merid. Direct.* | ♀ Nov. 6 | 5 43 | *Mars* ——— ab Aquarij λ ——— | 28 11 40 | 675 05 | 28 11 57 |
| | | 47 | ——— rep. | 28 11 35 | 675 01 | 28 11 51 |
| | | 52 | ab Aquilæ lucidâ ——— | 32 54 15 | 787 52 | 32 53 40 |
| | | 55 | ——— rep. | 32 54 10 | 787 48 | 32 53 35 |
| | | 6 03 | *Aquilæ lucida* — ab Aquarij λ ——— | 48 13 20 | 1154 74 | 48 13 16 |

# MARTIS DISTANTIÆ à FIXIS.

| Anno Christi MDCLXXXVI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | Martis Distantiæ à Fixis | Diſtantiæ per lineas diagonales. ° ' " | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| ♂ Jan. 12 | 5 30 | *Mars* ——— à lucida Arietis ——— | 36 00 55 | 862 40 | 36 00 57 | *Mars in Piſc. 28° ½ Merid. Direct.* |
| | 31½ | ——— rep. | 36 01 35 | 862 57 | 36 01 22 | |
| | | *Duæ hæ Diſtantiæ haud accuratæ ſunt, propter nubeculas obſcuras Planetam ſubtercurrentes, ſed ultima certior, haud longè à vera abeſt.* | | | | |
| ♄ 30 | 6 02 | *Mars* ——— à Palilicio ——— | 53 49 40 | 1288 97 | 53 49 15 | *Mars in Ariet. 12° Merid. Dir* |
| | 06 | ——— rep. | 53 49 35 | 1288 91 | 53 49 06 | |
| ♃ Feb. 11 | 6 10½ | *Mars* ——— à Palilicio ——— | 45 14 25 | 1083 50 | 45 14 40 | *Mars in Ariet. 20° juxta Nodum, Direct.* |
| | 13 | ——— rep. | 45 14 20 | 1083 47 | 45 14 36 | |
| | 27 | à Capite Andromedæ — | 27 33 45 | 659 78 | 27 33 42 | |
| | 29 | ——— rep. | 27 33 45 | 659 76 | 27 33 39 | |
| ☿ Oct. 6 | | *Poſt mediam noctem ſequentem vel 7 mane; Tubo optico, ped. 8, & Micrometro, Martis & Veneris ſequentes obtinui Diſtantias; erat Venus in conſequentia Martis ad Boream ab eo, tum quoad Latitud. tum quoad Declinat. Eadem mane & Mercurij à Saturno obſervavi Diſtantias, vide ſub Mercurio.* | | | | *Mars in Virg. 27° Sept. Dir.* |
| | 17 16 | *Mars* ——— à Venere ——— 5705 = | 00 46 53 | | | |
| | 19 | ——— rep. 5702 = | 00 46 52 | | | |
| | 29½ | Differ. Declinat. 650 = | 00 05 21 | | | |
| | 35½ | ——— rep. 610 = | 00 05 01 | | | |
| | 38 | à Venere iterùm 5817 = | 00 47 49 | | | |
| | 18 30 | à Regulo ——— | 31 45 55 | 760 40 | 31 45 51 | |
| | 33 | ——— rep. | 31 46 05 | 760 48 | 31 46 03 | |
| | | *Vide Diſtantias Veneris à Sole, Die 7 ſub Venere.* | | | | |
| ♀ 29 | 18 47 | *Mars* ——— à Regulo ——— | 46 24 20 | 1111 10 | 46 23 55 | *Mars in Libra 12° Sept. Dir.* |
| | 49 | ——— rep. | 46 24 30 | 1111 14 | 46 24 01 | |
| MDCLXXXVII. | | | | | | |
| ♂ Jan. 18 | 17 42 | *Mars* ——— à Spica Virginis ——— | 43 57 45 | 1052 56 | 43 57 12 | *Mars in Sagit. 3° Sept. Dir.* |
| | 44 | ——— rep. | 43 57 45 | 1052 60 | 43 57 18 | |
| ♂ Mar. 8 | 16 53 | *Mars* ——— à Clara ſup. in Fronte ♏ii | 34 54 30 | 835 69 | 34 54 07 | *Mars in Capr. 4° Merid. Dir.* |
| | 56 | ——— rep. | 34 54 30 | 835 70 | 34 54 09 | |
| | 17 00 | à Jove ——— | 10 25 35 | 249 52 | 10 25 20 | |
| | 02 | ——— rep. | 10 25 40 | 249 58 | 10 25 29 | |
| ☽ Julij 18 | 11 14 | *Mars* ——— ab Humero Sagittarij — σ | 40 31 00 | 970 30 | 40 31 05 | *Mars in Aquar. 18° ½ Merid. Ret. Max. Lat.* |
| | 19 | ——— rep. | 40 30 55 | 970 20 | 40 30 50 | |
| | 37 | à præced. Humero Aquarij | 15 17 00 | 366 00 | 15 16 50 | |
| | 41 | ——— rep. | 15 17 00 | 366 00 | 15 16 50 | |
| | | *Has cepit D.* Nic. Fatius *cum miniſtro, me* Burſtovij *abſente.* | | | | |
| ☿ Aug. 3 | 10 35 | *Mars* ——— ab ultima in Capite Sagitt. π | 33 36 40 | 804 54 | 33 36 13 | *Mars in Aqu. 14° Merid. Ret. juxta Solis Oppoſ.* |
| | 38 | ——— rep. | 33 36 40 | 804 52 | 33 36 10 | |
| | 53 | à media trium ad ψ in Aqua Aquarij ——— | 27 49 35 | 666 15 | 27 49 40 | |

| | Anno Christi MDCLXXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | MARTIS DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Mars in Aqua. 17° Mer. Dir.* | ♃ Sept. 29 | 6 12 | *Mars* —— ab ultima in Capite Sagit. ♐ | 35 41 15 | 854 40 | 35 40 55 |
| | | 14 | —— rep. | 35 41 15 | 854 42 | 35 40 58 |
| | | 29 | ab Aquilæ lucida —— | 37 53 30 | 907 15 | 37 52 52 |
| | | 32 | —— rep. | 37 53 25 | 907 15 | 37 52 52 |
| | | 35 | ab Algenib Pegasi —— | 49 51 15 | 1193 96 | 49 51 33 |
| *Mars in Aqu. [illegible] Merid. Direct.* | ♀ Oct. 26 | 7 08 | *Mars* —— à secunda Arietis —— | 60 46 35 | 1455 82 | 60 46 33 |
| | | 13 | —— rep. | 60 46 40 | 1455 80 | 60 46 30 |
| | | 22 | ab Ore Pegasi —— | 24 08 50 | 578 04 | 24 08 42 |
| | | 24 | —— rep. | 24 08 45 | 578 01 | 24 08 38 |
| | | 31 | *Os Pegasi* —— à secunda Arietis —— | 61 00 40 | 1461 45 | 61 00 37 |
| | | 34 | —— rep. | 61 00 50 | 1461 50 | 61 00 45 |
| *Mars in Pisc. 13° Mer. Dir.* | ☉ Nov. 20 | 5 09 | *Mars* —— à φ ♒ii (Tub. Ped. 8) 6781 = | 00 55 45 | | |
| | | 12 | —— rep. 6789 = | 00 55 49 | | |
| | | 30 | Differ. (Declinat. Marte Borealiore) 2955 = | 00 24 18 | | |
| | | 36 | *Mars* —— à fixa iterùm —— 6903 = | 00 56 50 | | |
| | | | *Phasis, ut per tubum apparuit, inversa est.* | | | |
| | MDCLXXXVIII. | | | | | |
| *Mars in Ariet. 27° Sept. Dir.* | ♀ Jan. 27 | 6 25 | *Mars* —— à Palilicio —— | 38 36 30 | 924 68 | 38 37 13 |
| | | 28 | —— rep. | 38 36 30 | 924 70 | 38 37 16 |
| *Mars in Ariet. 29° Sept. Dir.* | ♂ 31 | 6 57 | *Mars* —— à Palilicio —— | 36 01 40 | 862 69 | 36 01 40 |
| | | 7 00 | —— rep. | 36 01 45 | 862 72 | 36 01 45 |
| *Mars in Tauri 8° Sept. Dir.* | ☽ Feb. 13 | 6 43 | *Mars* —— à lucida Plejadum —— | 17 33 10 | 420 46 | 17 33 12 |
| | | 46 | —— rep. | 17 33 05 | 420 39 | 17 33 02 |
| | | 51 | à Palilicio —— | 27 42 55 | 663 69 | 27 43 30 |
| | | 54 | —— rep. | 27 42 55 | 663 70 | 27 43 31 |
| | | 7 01 | à lucidâ Arietis —— | 10 31 55 | 252 11 | 10 31 50 |
| | | 04 | —— rep. | 10 31 55 | 252 10 | 10 31 48 |
| *Mars in Scorp. 29. Sept. Dir.* | ♄ Dec. 19 | 18 43½ | *Mars* —— à Spica Virginis —— | 39 57 20 | 956 75 | 39 57 06 |
| | | 44½ | —— rep. | 39 57 30 | 956 81 | 39 57 15 |
| | | 19 00 | à Superiore apparentèr duarum Fixarum contiguarum ad ω Scorpij, Tubo Pedum 8. —— | ♂ A | 1360 = | 00 11 11 |
| | | 02 | —— rep. | ♂ A | 1362 = | 00 11 12 |
| | | 03½ | ab infer. appar. reverâ Bor. | ♂ B | 724 = | 00 05 57 |
| | | 05 | —— rep. | ♂ B | 714 = | 00 05 52 |
| | | 07 | ab Australi verè iterùm —— | ♂ A | 1357 = | 00 11 09 |
| | | 08 | —— rep. | ♂ A | 1354 = | 00 11 08 |
| | | 09½ | *Inter fixas ad ω Scorpij.* —— | A B | 1762 = | 00 14 30 |
| | | 11 | —— rep. | A B | 1758 = | 00 14 28 |
| | | 13 | *Mars* —— ab inferiore fixarum —— rep. | ♂ B | 752 = | 00 06 11 |
| | MDCLXXXIX. | | | | | |
| *Mars in Pisc. 1° Mer. Dir.* | ☽ Apr. 29 | 15 06 | *Mars* —— ab ultima in Capite Sagittarij —— ♐ | 49 48 40 | 1192 72 | 49 48 27 |
| | | 09 | —— rep. | 49 49 00 | 1192 84 | 49 48 45 |

| ANNO CHRISTI MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Nov. 8 *vel* ♃ 9 *mane.* | 18 28 | *Venus* ——— à Regulo ——— | | 1095 89 | 45 45 43 | *Venus in Libr. 11° Sept. Dir.* |
| | 38½ | ——— rep. | | 1096 13 | 45 46 21 | |
| | 48⅓ | ab Arcturo ——— | | 727 87 | 30 24 13 | |
| | 19 02 | à Regulo ——— | | 1096 73 | 45 47 51 | |
| ♃ 16 *vel* ♀ 17 *mane* | 18 46 | *Venus* ——— ab Arcturo ——— | | 690 08 | 28 49 39 | |
| | 58½ | à Corde Hydræ ——— | | 1446 60 | 60 23 33 | |
| | 19 01 | à Regulo ——— | | 1295 52 | 54 05 52 | |
| | 20 09¼ | à limbo Solis præcedente — | | 1104 07 | 46 06 18 | |
| | 20¼ | (*alto Sole* 2° 45′) — rep. | | 1105 36 | 46 09 31 | |
| | 28 | ——— iter. | | 1106 15 | 46 11 30 | |
| | 30⅓ | (*alto Sole* 4° 12′) — iter. | | 1106 22 | 46 11 40 | |
| | 38⅓ | ——— iter. | | 1106 68 | 46 12 49 | |
| | 47 | ——— denuo | | 1107 02 | 46 13 40 | |
| | 56 | à limbo Solis sequente — | | 1120 44 | 46 47 21 | *Venus in Libr. 19° Sept. Dir.* |
| | 21 03 | à limbo Solis præced. iter. | | 1107 56 | 46 15 01 | |
| | 23 20 | à limbo Solis præced. iter. | | 1108 60 | 46 17 39 | |
| | 22 | ——— rep. | | 1108 60 | 46 17 39 | |
| | 27½ | à limbo sequente Solis ——— | | 1121 50 | 46 49 58 | |
| | | — à *famulis* — rep. | | 1121 52 | 46 50 01 | |
| | 46½ | ——— iter. | | 1121 60 | 46 50 13 | |
| | 51½ | à limbo Solis præcedente — | | 1108 70 | 46 17 54 | |
| | | *Hucusque Planeta Sole altior extiterat, in sequentibus duabus Sol paululùm altior erat quam Venus.* | | | | |
| | | *Post Meridiem ejusdem diei.* | | | | |
| | 1 03 | *Venus* ——— à limbo Solis præcedente — | | 1108 46 | 46 17 18 | |
| | 13½ | ——— rep. | | 1108 50 | 46 17 24 | |
| ♃ 23 *vel* ♀ 24 *mane* | 18 41 | *Venus* ——— ab Arcturo ——— | | 702 59 | 29 20 55 | *Venus in Libr. 27° Sept. Dir.* |
| | 46 | ——— rep. | | 702 56 | 29 20 51 | |
| | 56 | à Spica Virginis ——— | | 212 05 | 08 51 36 | |
| | | *Repetitâ diligenter quaq; mensurâ, accuratissimas utrasq; existimavimus; expectato deinde Solis exortu distantiæ sequentes observatæ.* | | | | |
| | 20 11 | *Veneris* ——— à limbo Solis præcedente — | | 1092 45 | 45 37 06 | |
| | 14 | ——— rep. | | 1093 05 | 45 38 36 | |
| | 17¼ | ——— iter. | | 1093 57 | 45 39 55 | |
| | 36 | ——— iter. | | 1095 67 | 45 45 10 | |
| | 22 58 | ——— iter. | | 1097 90 | 45 50 46 | |
| | 23 05 | ——— denuo | | 1097 90 | 45 50 46 | |
| | 10 | à limbo Solis sequente — | | 1110 87 | 46 23 20 | |
| | 15½ | à limbo Solis præcedente — | | 1097 95 | 45 50 54 | |
| | 18⅓ | ——— rep. | | 1097 95 | 45 50 54 | |
| | 21 | à limbo Solis sequente — | | 1110 93 | 46 23 28 | |
| | 45¼ | ——— rep. | | 1110 93 | 46 23 28 | |
| | 54 | ——— iter. | | 1110 95 | 46 23 31 | |
| | 59 | à limbo Solis præcedente — | | 1097 93 | 45 50 51 | |
| | | *Tunc Planeta in æquali ferè altitudine cum Sole vel paululum majore; in tribus ultimis Observationibus ventus validior concutiebat Instrumentum; attamen Cœlo satis sereno existente, opportunitatem habuimus, captas, quoties ponebat Ventus & quiescere Instrumentum permisit, repetendi: quas propterea nihilominus accuratas existimo.* | | | | |

| | Anno Christi MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Venus in Scorp. 0° Sept. Dir.* | ♃ Nov. 26 | 19 28 | *Venus* —— à Spica Virginis —— | | 284 70 | 11 53 28 |
| | *vel* ☽ 27 | 49 | —— rep. | | 284 98 | 11 54 10 |
| | *mane.* | 59½ | —— iter. | | 285 13 | 11 54 33 |
| | | 20 00 | —— denuo | | 285 23 | 11 54 48 |
| | | 29 | à limbo Solis præcedente — | | 1088 66 | 45 27 36 |
| | | | *Nubes porro, continuari Observationes probibuere.* | | | |
| | ☽ Dec. 18 | | *Observationes sequentes, pro loco Solis tùnc* | | | |
| | *vel* ♂ 19 | | *Perigæi investigando institutæ & peractæ,* | | | |
| | *mane.* | | *Cœlo annuente, valde sereno & tranquillo.* | | | |
| *Venus in Scorp. 25° Sept. Dir.* | | 19 19 1/7 | *Venus* —— ab Arcturo *sæpe* repetita — | | 1056 83 | 44 07 55 |
| | | 26 | à Spica Virginis —— | | 872 59 | 36 26 28 |
| | | 31 | —— rep. | | 872 66 | 36 26 39 |
| | | 20 21 | à limbo Solis præcedente | | 1020 45 | 42 36 46 |
| | | 22½ | —— rep. | | 1020 75 | 42 37 31 |
| | | 59 4/7 | —— iter. | | 1024 83 | 42 47 45 |
| | | 21 01½ | —— denuo | | 1024 85 | 42 47 49 |
| | | 04⅓ | à limbo Solis sequente — | | 1037 96 | 43 20 40 |
| | | 22 53¼ | —— rep. | | 1038 54 | 43 22 06 |
| | | 36¼ | —— iter. | | 1038 54 | 43 22 06 |
| | | 38 | à limbo Solis præcedente | | 1025 57 | 42 49 37 |
| | | 49¼ | —— rep. | | 1025 60 | 42 49 42 |
| | | 23 17 | —— iter. | | 1025 53 | 42 49 31 |
| | | 38 | —— denuo | | 1025 45 | 42 49 19 |
| | | 40⅙ | —— accuratè | | 1025 45 | 42 49 20 |
| | | | *Altitudo Planetæ in duabus posterioribus animadversionibus, eadem quæ Solis æstimata, in præcedentibus sempèr major apparuit.* | | | |
| | MDCLXXVII. | | | | | |
| | ♂ Jan. 16 | 18 10 | *Spica Virginis* — à Corde Scorpii —— | | 1098 83 | 45 53 22 |
| | *vel* ☿ 17 | 21 | & in manu Serpentarii } ♌ Borealior Yed —— } | | 1018 79 | 42 32 37 |
| *Venus in Capr. 0° Sept. Dir.* | *mane.* | 40 | *Venus* —— à seq. Humer. Serpentarii β | | 669 68 | 27 58 31 |
| | | 43 | —— rep. | | 669 86 | 27 58 58 |
| | | 50 | à Corde Scorpii —— | | 611 29 | 25 32 01 |
| | | 54 | —— rep. | | 611 31 | 25 32 04 |
| | | | *Cor Scorpii paulo humilius quam Planeta.* | | | |
| | | 19 51 1/10 | *Venus* —— à limbo Solis præcedente — | | 913 45 | 38 08 39 |
| | | 20 17⅓ | —— rep. | | 914 89 | 38 12 15 |
| | | 58 | —— iterum | | 915 29 | 38 13 15 |
| | | | *Ultimam hanc Observationem nòn valdè accuratam existimo, nubes quoniàm tenues, Cœlos ab ea parte subduxissent, qua Venus fuerit observanda, quas densiores secutæ ipsam penitus è conspectu abstulere, nec iterum eo die hanc licuit observare.* | | | |
| | ☿ 24 *vel* ♃ 25 *mane.* | | *Post mediam noctem sequentem, distantia Veneris ab 8va Sagittarii, lucis secundæ, cujus tùnc locus Tychonicus Capricorni 10° 31′ ½, Latitudo 0° 59′ Sept. Tubo breviore & Micrometro observata.* | | | |

| ANNO CHRISTI MDCLXXVII. Mense, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantia per Cochleæ Revolutiones & Circuli partes Respondentes.* *Revol. Cent.* | ° ′ ″ | |
|---|---|---|---|---|---|---|
| | | *Appulsus Veneris ad 8$^{am}$ Sagittarii.* | | | | |
| ☿ Jan. 24 | 18 21⅓ | *Venus* ——— à Fixa ——— | | 4917 | = 40 24 | |
| *vel* ♃ 25 | 25 | ——— rep. | | 4935 | = 40 35 | |
| *mane.* | 29⅓ | Differentia Altitudinum Veneris & Stellæ — | | 2028 | = 16 42 | |
| | 31 | Isthæc repetita eadem ——— | | 2028 | = 16 42 | |
| | | *Venus per Tubum humilior & ad sinistram à fixâ apparuit, reverà in antecedentia ejus & altior exstiterit.* | | | | |
| | | *Hora 18 29′ ⅓, Angulus circuli verticalis cum Ecliptica calculo investigatus 68° 42′; Planeta ergo in antecedentia Fixæ, cum Latitudine minore ad Sept.* | | | | |
| ♀ Nov. 7 *vesperi.* | | *Venus Observata à 3$^{a}$ Sagittarii, lucis 4$^{tæ}$, cujus tùnc locus Tychonicus Capricorni 1° 51′ Lat. 2° 00′ Merid. Tubo longiore & Micrometro, ut sequitur.* | | | | |
| | 5 09¾ | *Veneris limb. prox.* à fixa ——— | | 4114 | = 20 31 | |
| | 13⅘ | ——— rep. | | 4070 | = 20 18 | |
| | 25 | Differentia Declinationum centri Veneris & fixæ; Venere Borealiore ——— | | 2485 | = 12 14 | |
| | | *Sed huic nòn nimiùm fidendum, latior enim erat inter Venerem & fixam intercapedo quàm ut accuratè hæc differentia determinari potuit. Planeta per Tubum ad lævam à fixa & Australior visa, reverà in antecedentia erat & Borealior.* | | | | |
| MDCLXXVIII. | | | | | | |
| ☽ Jan. 21 | 7 33½ | *Venus* ——— à lucida in Mandibula Ceti | 42 31 45 | 1018 52 | 42 31 58 | *Venus in Pisc. 29° Sept. Dir. juxta maximam Elongationem à Sole.* |
| | 37¼ | ——— rep. | 42 31 35 | 1018 45 | 42 31 46 | |
| ♂ 22 | 6 38⅓ | *Venus* ——— à Prima Hyadum ——— | 61 29 00 | 1472 98 | 61 29 05 | |
| | 42¼ | ——— rep. | 61 28 30 | 1472 77 | 61 28 35 | |
| ☽ Feb. 4 | 21 50 | *Venus* ——— a limbo Solis præcedente – | 46 45 40 | 1119 77 | 46 45 37 | |
| *vel* ♂ 5 | 52½ | ——— melius repetit. | 46 45 10 | 1119 57 | 46 45 07 | |
| *mane.* | 55½ | à limbo Solis sequente ——— | 46 12 35 | 1106 55 | 46 12 30 | |
| | 58 | ——— rep. | 46 12 40 | 1106 60 | 46 12 37 | |
| | | *Sequente Vespera.* | | | | |
| ♂ 5 | 5 41 | *Venus* ——— à Palilicio ——— | 51 52 10 | 1242 20 | 51 52 32 | *Venus in Ariet. 13° Septentrionalis, 7 dies post maximam Elongationem vespertinam. Sol in Aquarii 26° ½.* |
| | 46 | ——— rep. | 51 51 55 | 1242 12 | 51 52 17 | |
| | 56½ | à Capite Andromedæ ——— | 23 50 40 | 571 00 | 23 51 06 | |
| | 59 | ——— rep. | 23 50 35 | 571 01 | 23 51 07 | |
| | 6 05 | à Palilicio ——— | 51 51 15 | 1241 75 | 51 51 20 | |
| | 08 | ——— rep. | 51 51 15 | 1241 78 | 51 51 25 | |
| ♃ 7 *vel* ♀ 8 *mane.* | 22 12 | *Venus* ——— à limbo Solis præcedente – | 46 30 40 | 1113 89 | 46 30 54 | *Venus in Ariet. 16° ½ Sept. Dir.* |
| | 15½ | ——— rep. | 46 30 55 | 1113 98 | 46 31 07 | |
| | 20 | à limbo Solis sequente ——— | 45 58 30 | 1101 02 | 45 58 39 | |
| | 23 | ——— rep. | 45 58 30 | 1101 02 | 45 58 39 | |
| | 23 02 | ——— iterum. | 45 58 30 | 1101 03 | 45 58 40 | |

| | Anno Christi MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| | ♃ Feb. 7 vel ♀ 8 mane. | | *Ad ultimam annotationem Planeta paulò altior erat ac Sol, in præcedentibus humilior.* | | | |
| *Venus in Ariet. 19° Sept. Dir.* | ☽ 11 | 0 02 | *Venus* —— à limbo Solis præcedente | 46 11 00 | 1105 98 | 46 11 05 |
| | | 05 | —— rep. | 46 11 05 | 1106 03 | 46 11 09 |
| | | 06½ | à limbo Solis sequente —— | 45 38 25 | 1093 14 | 45 38 50 |
| | | 09 | —— rep. | 45 38 20 | 1093 11 | 45 38 45 |
| | | 12 | —— iter. | 45 38 25 | 1093 15 | 45 38 51 |
| | | 13 | à limbo Solis præcedente | 46 11 05 | 1106 06 | 46 11 17 |
| | | 6 31¼ | à Palilicio —— | 46 35 30 | 1115 87 | 46 35 51 |
| | | 36¼ | —— rep. | 46 35 25 | 1115 85 | 46 35 48 |
| | | | *In diurnis Observationibus Venus erat paulò altior quam Sol, Cælum tùnc, ut etiàm sequente Vespera, valde serenum, Ventus nullus, hisce ergo fidendum.* | | | |
| *Venus in Gem. 8° Merid. Dir.* | ♃ Julij 4 vel ♀ 5 mane. | 14 31 | *Venus* —— à lucida Arietis —— | 36 51 50 | 882 84 | 36 52 05 |
| | | 56 | —— rep. | 36 53 10 | 883 41 | 36 53 30 |
| | | 15 12 | —— | 36 53 50 | 883 83 | 36 54 40 |
| | | 23 | —— | 36 54 40 | 884 05 | 36 55 13 |
| | | 41 | —— | 36 56 00 | 884 41 | 36 56 07 |
| | | 49 | —— | | 884 60 | 36 56 36 |
| | | 55 | —— | | 884 70 | 36 56 51 |
| | | 16 01 | à limbo Solis remotiore —— | 44 53 20 | 1075 30 | 44 54 13 |
| | | 18 40 | —— rep. | 45 08 50 | 1081 20 | 45 08 55 |
| | | 21 39 | —— iter. | 45 08 50 | 1081 25 | 45 09 03 |
| *Venus in Gem. 11° Merid. Dir.* | ☉ 7 vel ☽ 8 mane. | 17 37 | *Venus* —— à limbo Solis remotiore —— | 44 50 20 | 1074 04 | 44 51 03 |
| | | 40½ | —— rep. | 44 50 20 | 1074 02 | 44 51 00 |
| | | 44 | à limbo Solis præcedente | 44 19 20 | 1061 50 | 44 19 37 |
| | ☽ 8 vel ♂ 9 mane. | 14 35 | *Venus* —— à lucida Arietis —— | 40 46 30 | 976 60 | 40 46 52 |
| | | 43½ | à Palilicio —— | 07 18 45 | 174 95 | 07 18 37 |
| | | 49 | à Mandibula Ceti —— | 33 24 15 | 799 73 | 33 24 15 |
| | | 15 00 | à lucid. in Cap. Med. Algol | 32 06 35 | 768 65 | 32 06 30 |
| *Venus in Gem. 12° Merid. Dir.* | | 04½ | à lucidâ Arietis iterùm —— | 40 48 00 | 977 34 | 40 48 43 |
| | | 16 | —— rep. | 40 48 30 | 977 52 | 40 49 10 |
| | | 19 21⅓ | à limbo Solis sequente —— | 44 45 00 | 1071 83 | 44 45 30 |
| | | 24 | —— rep. | 44 45 00 | 1071 84 | 44 45 32 |
| | | 27½ | à limb. Sol. prox. vel præced. | 44 13 30 | 1059 25 | 44 14 00 |
| | | 30⅓ | —— rep. | 44 13 30 | 1059 26 | 44 14 02 |
| | | 23 07 | —— iter. | 44 12 40 | 1059 00 | 44 13 23 |
| | | | *Venus nùnc paululùm humilior quam Sol.* | | | |
| *Venus in Gem. 13°.* | ♂ 9 vel ☿ 10 mane. | 21 54 | *Venus* —— à limbo Solis præcedente | 44 06 50 | 1056 50 | 44 07 06 |
| | | 22 01 | à limbo Solis sequente —— | 44 37 50 | 1068 97 | 44 38 20 |
| | | 32 | —— rep. | 44 38 00 | 1069 08 | 44 38 36 |
| | | 35½ | —— | 44 37 55 | 1069 04 | 44 38 30 |
| | | 38⅓ | à limbo Solis præcedente —— | 44 06 35 | 1056 40 | 44 06 50 |
| | | 44½ | —— rep. | 44 06 40 | 1056 46 | 44 07 00 |
| | ☽ 22 vel ♂ 23 mane. | 14 59 | *Venus* —— à Palilicio —— | 22 11 50 | 531 44 | 22 11 48 |
| | | 15 02 | —— | 22 12 10 | 531 54 | 22 12 03 |
| | | 08 | à Capellâ —— | 26 47 25 | 641 41 | 26 47 33 |
| | | 11½ | —— rep. | 26 47 25 | 641 39 | 26 47 30 |

| ANNO CHRISTI MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| ☽ Julij 22 vel ♂ 23 mane. | 15 $19\frac{2}{3}$ | Venus ——— à Palilicio ——— | 22 12 50 | 531 85 | 22 12 50 | |
| | 32 | ——— | 22 13 20 | 532 06 | 22 13 21 | |
| | 16 00 | ——— | 22 14 40 | 532 59 | 22 14 44 | Venus in Gem. 27° Merid. Dir. |
| | $13\frac{1}{3}$ | ——— | 22 15 20 | 532 89 | 22 15 25 | |
| | 23 | à limbo Solis præcedente – | 42 05 40 | 1008 08 | 42 05 46 | |
| | $24\frac{2}{3}$ | à limbo Solis sequente —— | 42 36 20 | 1020 33 | 42 36 28 | |
| | 21 $01\frac{1}{3}$ | à limbo Solis præcedente – | 42 23 55 | 1015 45 | 42 24 15 | |
| | 05 | ——— rep. | 42 24 00 | 1015 45 | 42 24 15 | |
| | $06\frac{2}{3}$ | à limbo Solis sequente —— | 42 55 20 | 1027 92 | 42 55 32 | |
| | 11 | ——— rep. | 42 55 45 | 1027 96 | 42 55 38 | |
| | 22 58 | ——— | 42 55 05 | 1027 77 | 42 55 10 | |
| | 23 01 | ——— | | 1027 72 | 42 55 05 | |
| | 11 | à limbo Solis præcedente – | | 1015 06 | 42 23 16 | |
| ♂ Sept. 3 vel ☿ 4 mane. | 15 $16\frac{1}{3}$ | Venus ——— à Procyone ——— | 30 06 25 | 720 83 | 30 06 34 | |
| | $26\frac{1}{8}$ | à Polluce ——— | 28 48 30 | 689 63 | 28 48 31 | |
| | $30\frac{1}{2}$ | ——— | 28 49 05 | 689 84 | 28 49 02 | |
| | 37 | à lucido pede Geminorum | 42 52 40 | 1026 79 | 42 52 42 | |
| | 16 $02\frac{1}{2}$ | ab Australi præcedentium in □° Ursæ Majoris ——— } β | 44 44 40 | 1071 77 | 44 45 21 | |
| | 09 | ——— | 44 45 00 | 1071 87 | 44 45 36 | Venus in Leonis 17° Sept. Dir. |
| | 19 | à Corde Leonis, Regulo — | 08 15 55 | 197 94 | 08 16 15 | |
| | $24\frac{1}{4}$ | ——— | 08 16 00 | 197 98 | 08 16 21 | |
| | $28\frac{1}{2}$ | ——— | 08 16 00 | 197 94 | 08 16 15 | |
| | $34\frac{1}{8}$ | à lucido pede Geminorum | 42 57 05 | 1028 50 | 42 56 57 | |
| | 45 | ——— | 42 57 50 | 1029 14 | 42 58 33 | |
| | 17 $02\frac{1}{3}$ | ——— | 42 58 10 | 1029 13 | 42 58 31 | |
| | $08\frac{1}{2}$ | ——— | 42 58 50 | 1029 56 | 42 59 36 | |
| | $46\frac{1}{3}$ | à limbo Solis sequente —— | 34 24 35 | 823 83 | 34 24 30 | |
| | $50\frac{1}{2}$ | ——— | 34 29 30 | 825 81 | 34 29 30 | |
| | 58 | ——— | 34 33 45 | 827 46 | 34 33 37 | |
| | 21 $15\frac{1}{2}$ | à limbo Solis præcedente – | 34 12 40 | 818 98 | 34 12 22 | |
| | 21 | ——— rep. | 34 12 20 | 818 92 | 34 12 13 | |
| | | *Me valetudinario* Faber *habuit.* | | | | |
| ☿ 11 vel ♃ 12 mane. | 16 $59\frac{1}{2}$ | Venus ——— à Procyone ——— | 38 41 00 | 926 51 | 38 41 22 | |
| | 17 06 | à lucido pede Geminorum | 52 30 35 | 1257 22 | 52 30 09 | |
| | 10 | ——— rep. | 52 30 40 | 1257 29 | 52 30 19 | |
| | $15\frac{1}{3}$ | à Polluce ——— | 38 16 50 | 916 74 | 38 16 54 | |
| | $19\frac{2}{3}$ | à Castore ——— | 41 45 00 | 1000 12 | 41 45 51 | Venus in Leonis 27° Sept. Dir. |
| | 24 | à Marte Planeta ——— | 38 39 00 | 925 64 | 38 39 12 | |
| | 18 $09\frac{2}{3}$ | à limbo Solis proximo —— | 32 14 45 | 771 73 | 32 14 12 | |
| | $14\frac{1}{4}$ | ——— | 32 17 05 | 772 74 | 32 16 45 | |
| | $21\frac{1}{3}$ | ——— | 32 19 15 | 773 68 | 32 19 06 | |
| | $40\frac{1}{4}$ | ——— :: | 32 22 25 | 774 97 | 32 22 13 | |
| | $44\frac{1}{3}$ | ——— | 32 23 00 | 775 18 | 32 22 44 | |
| | 19 $52\frac{1}{3}$ | ——— | 32 25 45 | 776 27 | 32 25 34 | |
| | 56 | ——— | 32 25 35 | 776 20 | 32 25 24 | |
| | | *Has cepit Distantias D.* Halleius *me tunc Derbiæ absente.* | | | | |
| ♄ 14 | 2 $58\frac{1}{3}$ | Venus ——— à limbo Solis remoto —— | 32 28 05 | 777 26 | 32 28 03 | |
| | 3 $08\frac{1}{3}$ | à limbo Solis proximo — | 31 55 50 | 764 41 | 31 55 52 | Venus in Leonis 29°$\frac{1}{4}$ |
| | $28\frac{1}{3}$ | ——— rep. | | 764 31 | 31 55 37 | |
| | 31 | ——— iter. | | 764 30 | 31 55 36 | |

| | Anno Christi MDCLXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♃ Sept. 18 | 23 25 | *Venus* — à limbo Solis remoto — | 31 21 20 | 750 65 | 31 21 30 |
| *Venus in Virginis 5° Sept. Direct.* | *vel* ♀ 19 | 29½ | à limbo proximo — | 30 49 15 | 737 89 | 30 49 21 |
| | *mane.* | 31⅓ | à limbo remoto — | 31 21 15 | 750 64 | 31 21 28 |
| | ♀ 19 | 0 39 | *Venus* — à limbo Solis remoto iterùm | | 750 37 | 31 20 48 |
| | | 45 | à limbo Solis proximo — | 30 48 30 | 737 58 | 30 48 35 |
| *Venus in Libra 4° Sept. Dir.* | ♀ Oct. 12 | 1 25⅓ | *Venus* — à limbo Solis proximo — | 25 23 50 | 608 16 | 25 24 10 |
| | | 33½ | à limbo Solis remoto — | 25 56 20 | 620 98 | 25 56 20 |
| | | 37⅓ | — rep. | | 620 98 | 25 56 20 |
| *Venus in Scorpio 13°.* | ☽ Nov. 4 *vel* ♂ 5 *mane.* | 19 03 | *Venus* — à Spica Virginis — | 14 28 05 | 346 73 | 14 28 37 |
| | ♂ 25 | 20 23 | *Venus* — à limbo Solis præcedente — | 14 28 20 | 346 68 | 14 28 33 |
| | | 27 | — | | 347 06 | 14 29 30 |
| | | 31⅓ | à limbo Solis sequente — | 15 01 55 | 360 15 | 15 02 12 |
| | | | *Flante Vento, sed Cœlo serenissimo, deinde.* | | | |
| *Venus in Sagit. 0° Sept. Dir.* | | 21 55 | *Venus* — à limbo Solis sequente — | 15 06 35 | 361 96 | 15 06 45 |
| | | 22 00½ | — rep. | 15 06 35 | 362 01 | 15 06 52 |
| | | 04 | à limbo Solis præcedente — | | 348 97 | 14 34 18 |
| | ♀ 26 | 0 27 | *Venus* — à limbo Solis præcedente — | 14 33 05 | 348 64 | 14 33 28 |
| | | 30 | — | 14 33 10 | 348 68 | 14 33 34 |
| | | 31½ | à limbo Solis sequente — | | 361 68 | 15 06 03 |
| | | 33⅓ | — | 15 06 05 | 361 74 | 15 06 12 |
| | MDCLXXIX. | | | | | |
| | ☉ Apr. 6 | 22 05½ | *Venus* — à limbo Solis præcedente — *Sole paulò altiore.* | 17 41 25 | 423 77 | 17 41 32 |
| *Venus in Tauri 15° Merid. Direct. juxta Nodum Boreum.* | *vel* ☽ 7 *mane.* | 11½ | — | 17 41 25 | 423 74 | 17 41 27 |
| | | 14⅔ | à limbo Solis prox. & seq. | 17 09 15 | 410 98 | 17 09 28 |
| | | 17½ | — | | 410 99 | 17 09 30 |
| | | | Plano deinde Sextantis in Meridiano disposito, observata differentia, altitudinum Meridionalium limbi Solis inferioris & Veneris — | 05 55 25 | 142 03 | 05 55 30 |
| | ♀ 18 | 22 38 | *Venus* — à limbo Solis prox. & seq. | 20 12 40 | 484 09 | 20 12 48 |
| *Venus in Tauri 29° ½ Sept. Dir.* | *vel* ♄ 19 | 41½ | — rep. | 20 12 40 | 484 10 | 20 12 50 |
| | *mane.* | 44½ | à limbo Solis remot. præced. | 20 44 20 | 496 77 | 20 44 44 |
| | | 46 | — rep. | 20 44 20 | 496 76 | 20 44 43 |
| | ♀ 25 | 22 28 | *Venus* — à limbo Solis proximo — | 21 59 35 | 526 56 | 21 59 34 |
| | *vel* ♄ 26 | 31¼ | — | 21 59 35 | 526 54 | 21 59 31 |
| *Venus in Gem. 6° Sept. Dir.* | *mane.* | 33⅞ | à limbo Solis remotiore — | 22 31 10 | 539 13 | 22 31 04 |
| | | 37 | — rep. | 22 31 10 | 539 14 | 22 31 05 |
| | | | Sextante deinde eodem, differentia altitudinum Meridionalium limbi Solis inferioris & Veneris — | 06 03 45 | 144 92 | 06 03 46 |
| | ☽ 28 | 8 43 | *Venus* — à Polluce — | 38 00 55 | 910 54 | 38 01 21 |

| ANNO CHRISTI MDCLXXIX. Mense, Dic. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♂ Apr. 29 vel ☿ 30 mane. | 22 31¼ | *Venus* ——— à limbo Solis proximo — | 23 00 25 | 550 83 | 23 00 33 | *Venus in Gem. 13°.* |
| | 36 | ——— rep. | 23 00 25 | 550 82 | 23 00 31 | |
| ♃ Maij 1 vel ♀ 2 mane. | 22 25 | *Venus* ——— à limbo Solis præced. remot. | 24 02 10 | 575 52 | 24 02 24 | |
| | 28 | ——— rep. | 24 02 20 | 575 61 | 24 02 37 | *Venus in Gem. 15° Sept. Dir.* |
| | 30½ | à limbo Solis seq. & prox. | 23 30 45 | 562 98 | 23 31 00 | |
| | 33½ | ——— rep. | 23 30 55 | 563 01 | 23 31 04 | |
| ♂ Junij 10 | | Differentia Altitudinum Meridionalium limbi Solis inferioris & Veneris sextante ——— | 01 46 40 | 042 61 | 01 46::44 | |
| | 2 56 | *Venus* ——— à limbo Solis sequente — | 33 10 10 | 794 03 | 33 09 58 | *Venus in Leonis 2°½.* |
| ♃ 12 | | Differentia Meridionalium Altitudinum limbi Solis inferioris & Veneris ——— | 02 21 30 | 056 09 | 02 20 30 | |
| ☿ 25 | | Differentia Distantiarum Meridionalium limbi Solis inferioris & Veneris, à Vertice ——— | 06 07 40 | 146 57 | 06 07 30 | *Venus in Leonis 20° Sept. Dir.* |
| | 2 55 | *Venus* ——— à limbo Solis proximo — | 36 32 50 | 875 22 | 36 33 00 | |
| | 57 | ——— rep. | 36 32 30 | 875 24 | 36 33 08 | |
| | 3 01 | à limbo Solis remotiore — | 37 04 15 | 887 78 | 37 04 25 | |
| | 03¼ | ——— rep. | 37 04 35 | 887 85 | 37 04 35 | |
| | 08 | ——— repetente *Fabro* | | 887 88 | 37 04 40 | |
| | 9 12 | à Spica Virginis ——— | 58 54 05 | 1410 91 | 58 54 18 | |
| | 15 | ——— rep. | 58 53 55 | 1410 80 | 58 54 02 | |
| ♄ 28 | | Differentia Distantiarum Meridionalium limbi Solis inferioris & Veneris, à Vertice ——— | 07 06 10 | | | *Venus in Leonis 24°.* |
| | 3 04 | *Venus* ——— à limbo Solis præcedente – | 37 44 05 | 903 76 | 37 44 28 | |
| | 06 | ——— rep. | | 903 74 | 37 44 25 | |
| | 08 | à limbo Solis seq. proximo | 37 12 30 | 891 09 | 37 12 44 | |
| | 11 | ——— rep. | 37 12 30 | 891 09 | 37 12 44 | |
| ♀ Julij 11 | 4 09½ | *Venus* ——— à limbo Solis proximo — | 39 51 35 | 954 78 | 39 52 09 | *Venus in Virginis 9°.* |
| | 13½ | à limbo Solis remoto — | 40 23 45 | 967 39 | 40 23 46 | |
| | 15½ | ——— rep. | 40 23 55 | 967 44 | 40 23 53 | |
| ♀ 18 | 3 18 | *Venus* ——— à limbo Solis proximo — | 41 09 45 | 985 95 | 41 10 20 | *Venus in Virginis 17° Sept. Direct.* |
| | 22 | ——— rep. | 41 09 45 | 985 94 | 41 10 18 | |
| | 24 | à limbo Solis remoto — | 41 41 55 | 998 64 | 41 42 07 | |
| | 26½ | ——— rep. | 41 41 55 | 998 61 | 41 42 03 | |
| | 31½ | à limbo Sol. remot. per *Fab.* | 41 41 50 | 998 58 | 41 41 58 | |
| ☽ 28 | | Differentia Distantiarum Meridionalium limbi Solis inferioris & Veneris, à Vertice ——— | 15 15 00 | 365 20 | 15 14 47 | *Venus in Virginis 28° Sept. Direct. juxta Nodum Austrinum vel descendentem.* |
| | 2 55½ | *Venus* ——— à limbo Solis proximo — | 42 51 20 | 1026 34 | 42 51 31 | |
| | 58 | ——— rep. | 42 51 05 | 1026 26 | 42 51 18 | |
| | 59⅓ | à limbo Solis remoto — | 43 23 35 | 1038 93 | 43 23 04 | |
| | 3 01⅓ | ——— accur. rep. | 43 23 35 | 1038 94 | 43 23 05 | |
| | 8 10 | à Spica Virginis ——— | 21 06 15 | 505 41 | 21 06 27 | |
| | 13 | ——— rep. | | 505 36 | 21 06 20 | |
| | 15 | ——— iter. *Spicâ paululo altiore.* | 21 06 05 | 505 30 | 21 06 10 | |

| | Anno Christi MDCLXXIX. Menſe, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♂ Julij 29 | | Differentia Diſtantiarum Meridionalium limbi Solis inferioris & Veneris, à Vertice | 15 28 00 | 370 55 | 15 28 09 |
| *Venus in Libra 11° Merid. Direct.* | ♄ Aug. 9 | 3 45½ | *Venus* — à limbo Solis remoto | 45 03 50 | 1079 31 | 45 04 10 |
| | | 48 | — rep. | 45 03 45 | 1079 29 | 45 04 07 |
| | | 57 | à limbo Solis proximo | 44 32 00 | 1066 56 | 44 32 18 |
| | | 59 | — rep. | 44 32 00 | 1066 56 | 44 32 18 |
| | | 4 02 | à limbo Solis remoto | 45 04 00 | 1079 33 | 45 04 13 |
| *Venus in Libra 19°.* | ♄ 16 | 4 12⅛ | *Venus* — à limbo Solis proximo | 45 17 05 | 1084 63 | 45 17 30 |
| | | 15⅓ | — rep. | 45 17 00 | 1084 73 | 45 17 45 |
| | | 26 | à limbo Solis remoto | 45 48 50 | 1097 28 | 45 49 13 |
| *Venus in Libra 24°.* | ♃ 21 | 4 04½ | *Venus* — à limbo Solis proximo | 45 42 00 | 1094 54 | 45 42 21 |
| | | 33⅓ | — rep. | 45 42 00 | 1094 58 | 45 42 27 |
| | | 35⅓ | à limbo Solis remoto | 46 14 05 | 1107 30 | 46 14 22 |
| | | 37 | — rep. | 46 14 20 | 1107 38 | 46 14 34 |
| | ♄ 23 | 2 02 | *Venus* — à limbo Solis proximo | 45 49 25 | 1097 27 | 45 49 15 |
| *Venus in Libræ 18° Merid. juxta maximam Elong. veſpertinam.* | ♃ Sept. 4 | 0 16 | *Venus* — à limbo Solis proximo | 46 08 15 | 1104 82 | 46 08 10 |
| | | 19 | — rep. | 46 08 35 | 1104 94 | 46 08 28 |
| *Venus in Sagit. 7° Mer. Dir. juxta Stat.* | ☽ Oct. 20 | 1 36⅓ | *Venus* — à limbo Solis proximo | 30 38 50 | 733 73 | 30 39 02 |
| | | 40 | — rep. | 30 38 30 | 733 61 | 30 38 44 |
| | | 42⅔ | à limbo Solis remoto | 31 10 55 | 746 48 | 31 11 02 |
| | | 46 | — rep. | 31 10 50 | 746 44 | 31 10 56 |
| | ☉ Dec. 21 *vel* ☽ 22 *mane.* | 19 04⅔ | *Venus* — à Spica Virginis | 40 16 10 | 964 18 | 40 15 45 |
| | | 08⅔ | — rep. | 40 16 15 | 964 22 | 40 15 51 |
| | | 11⅔ | — iter. | 40 16 20 | 964 26 | 40 15 57 |
| *Venus in Virg. 29° Sept. Direct.* | | 53 | — iter. | 40 17 30 | 964 82 | 40 17 21 |
| | | 20 07 | — iter. | 40 17 30 | 964 94 | 40 17 39 |
| | | 10 | — iter. | 40 18 15 | 965 06 | 40 17 57 |
| | | 12⅕ | — denuò. | 40 18 10 | 965 04 | 40 17 54 |
| | | 28½ | *Venus* — à limbo Solis proximo — *Nubes tùnc Planetam ſubeuntes Obſervationes continuari prohibuere.* | 41 31 30 | 994 41 | 41 31 31 |
| | MDCLXXX. | | | | | |
| | ♂ Jan. 27 *vel* ☿ 28 *mane.* | 17 56 | *Venus* — à Corde Scorpij | 27 31 15 | 658 97 | 27 31 40 |
| | | 18 05 | — rep. | 27 31 50 | 659 13 | 27 32 05 |
| *Venus in Capr. 2° Sept. Dir.* | | 08 | — iterùm | 27 32 00 | 659 19 | 27 32 13 |
| | | 11 | à mediâ in Fronte Scorpij | 34 01 10 | 814 52 | 34 01 12 |
| | | 16 | — rep. | 34 01 30 | 814 61 | 34 01 25 |
| | | 26 | — iter. | 34 02 00 | 814 78 | 34 01 51 |
| *Venus in Capr. 16° Sept. Dir.* | ☽ Feb. 9 *vel* ♂ 10 *mane.* | 18 02 | *Venus* — ab Antare | 40 55 50 | 980 08 | 40 55 36 |
| | | 05⅔ | — rep. | 40 56 05 | 980 16 | 40 55 48 |
| | | 09 | — iter. | 40 56 20 | 980 26 | 40 56 03 |
| | | 18 | — denuò. | 40 56 50 | 980 48 | 40 56 36 |
| | ♂ 10 *vel* ☿ 11 *mane.* | 18 09 | *Venus* — ab Antare | 42 00 40 | 1005 98 | 42 00 31 |
| | | 13 | — rep. | 42 00 45 | 1006 05 | 42 00 42 |
| | | 43 | — iter. | 42 01 55 | 1006 62 | 42 02 07 |

| Anno Christi MDCLXXX. Mense, Dic. Styl. Vet. | Temp. App. H. | M. | *Veneris* | Distantiæ à Sole & Fixis. | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. | Cent. | ° | ′ | ″ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ♂ Feb. 10 | 18 | 45 | *Venus* ———— | ab Antare ———— | 42 | 02 | 10 | 1006 | 71 | 42 | 02 | 21 | *Venus in Capr. 17° Sept.* |
| *vel* ☿ 11 | 19 | 05 | | à limb. Solis seq. & rem. rep. | 45 | 59 | 00 | 1101 | 14 | 45 | 58 | 55 | |
| *mane.* | | 09 | | ———— rep. | 45 | 59 | 45 | 1101 | 43 | 45 | 59 | 39 | |
| | | 12 | | à limb. Solis prox. & præced. | 45 | 27 | 50 | 1088 | 76 | 45 | 27 | 53 | |
| | | 14 | | ———— rep. | 45 | 28 | 10 | 1088 | 88 | 45 | 28 | 10 | |
| | 20 | $19\frac{1}{3}$ | | ———— iter. | 45 | 30 | 30 | 1089 | 82 | 45 | 30 | 32 | |
| | | $23\frac{1}{3}$ | | ———— iter. | 45 | 30 | 40 | 1089 | 86 | 45 | 30 | 37 | |
| | | $26\frac{1}{2}$ | | ———— denuo. | 45 | 30 | 45 | 1089 | 91 | 45 | 30 | 45 | |
| | | $29\frac{1}{2}$ | | à limbo Solis sequente —— | 46 | 03 | 05 | 1102 | 78 | 46 | 03 | 03 | |
| | | 32 | | ———— rep. | 46 | 03 | 10 | 1102 | 80 | 46 | 03 | 06 | |
| ♃ 12 | 18 | 14 | *Venus* ———— | ab Antare ———— | 44 | 10 | 25 | 1057 | 81 | 44 | 10 | 21 | *Venus in Capr. 18° Sept. Dir.* |
| *vel* ♀ 13 | | 19 | | ———— rep. | 44 | 10 | 35 | 1057 | 91 | 44 | 10 | 36 | |
| *mane* | | 22 | | ———— iter. | 44 | 10 | 40 | 1057 | 94 | 44 | 10 | 40 | |
| ☽ 16 | 18 | 57 | *Venus* ———— | à limbo Solis proximo —— | 44 | 47 | 35 | 1072 | 74 | 44 | 47 | 44 | *Venus in Capr 23°½.* |
| *vel* ♂ 17 | 21 | 20 | | ———— rep. | 44 | 50 | 10 | 1073 | 83 | 44 | 50 | 27 | |
| *mane.* | | 24 | | ———— iter. | 44 | 50 | 15 | 1073 | 86 | 44 | 50 | 31 | |
| | | 26 | | à limbo Solis remoto ———— | 45 | 22 | 35 | 1086 | 82 | 45 | 23 | 00 | |
| | | 28 | | ———— rep. | 45 | 22 | 35 | 1086 | 77 | 45 | 22 | 53 | |
| ♂ 17 | 18 | 08 | *Venus* ———— | ab Antare ———— | 49 | 38 | 20 | 1188 | 66 | 49 | 38 | 18 | |
| *vel* ☿ 18 | | 12 | | ———— rep. | 49 | 38 | 30 | 1188 | 77 | 49 | 38 | 35 | *Venus in Capr. 24½ Sept. Dir.* |
| *mane.* | | 18 | | ———— | 49 | 38 | 40 | 1188 | 89 | 49 | 38 | 52 | |
| | | $21\frac{1}{2}$ | | ———— | 49 | 38 | 50 | 1183 | 96 | 49 | 39 | 03 | |
| | 19 | $00\frac{1}{2}$ | | à limbo Solis remoto ———— | 45 | 13 | 35 | 1083 | 09 | 45 | 13 | 39 | |
| | | 03 | | ———— | 45 | 14 | 10 | 1083 | 31 | 45 | 14 | 12 | |
| | | 06 | | à limbo Solis proximo —— | 44 | 41 | 50 | 1070 | 47 | 44 | 42 | 03 | |
| | | $10\frac{1}{4}$ | | ———— rep. | 44 | 42 | 20 | 1070 | 64 | 44 | 42 | 28 | |
| | 20 | 55 | | ———— iter. | 44 | 43 | 15 | 1071 | 06 | 44 | 43 | 31 | |
| | 21 | 01 | | (in equali altitudine) ———— | 44 | 43 | 15 | 1071 | 04 | 44 | 43 | 28 | |
| | | $04\frac{1}{2}$ | | à limbo Solis remoto ———— | 45 | 15 | 45 | 1083 | 96 | 45 | 15 | 50 | |
| | | 7 | | ———— rep. | 45 | 15 | 45 | 1083 | 94 | 45 | 15 | 47 | |
| ♀ 20 | 17 | $45\frac{1}{4}$ | *Venus* ———— | ab Aquilæ lucida ———— | 27 | 51 | 20 | 666 | 96 | 27 | 51 | 42 | |
| *vel* ♄ 21 | | 48 | | ———— rep. | 27 | 51 | 40 | 667 | 07 | 27 | 51 | 58 | |
| *mane.* | | 50 | | ———— iter. | 27 | 51 | 50 | 667 | 07 | 27 | 51 | 58 | *Venus in Capr. 28° Sept. Dir.* |
| | | $54\frac{1}{3}$ | | à Corde Scorpii ———— | 52 | 57 | 25 | 1268 | 08 | 52 | 57 | 15 | |
| | 18 | $00\frac{1}{2}$ | | ———— rep. | 52 | 57 | 45 | 1268 | 17 | 52 | 57 | 28 | |
| | | $02\frac{1}{3}$ | | ———— iter. | 52 | 57 | 50 | 1268 | 20 | 52 | 57 | 33 | |
| | 20 | $50\frac{1}{3}$ | | à limbo Solis remoto ———— | 44 | 52 | 15 | 1074 | 76 | 44 | 52 | 46 | |
| | | $54\frac{1}{2}$ | | ———— rep. | 44 | 52 | 10 | 1074 | 77 | 44 | 52 | 48 | |
| | | 58 | | à limbo Solis proximo —— | 44 | 20 | 05 | 1061 | 88 | 44 | 20 | 33 | |
| | 21 | 02 | | ———— rep. | 44 | 20 | 10 | 1061 | 93 | 44 | 20 | 40 | |
| | | 05 | | ———— iter. | 44 | 20 | 15 | 1061 | 96 | 44 | 20 | 45 | |
| | | $7\frac{1}{2}$ | | à limbo Solis remoto ———— | 44 | 52 | 10 | 1074 | 74 | 44 | 52 | 44 | |
| ☿ Mar. 24 | 16 | 39 | *Venus* ———— | à lucida in Humero ♐ —— | 58 | 10 | 10 | 1393 | 19 | 58 | 10 | 00 | |
| *vel* ♃ 25 | | $47\frac{1}{2}$ | | ———— rep. | 58 | 11 | 05 | 1393 | 58 | 58 | 10 | 58 | |
| *mane.* | 17 | 03 | | ———— iter. | 58 | 12 | 35 | 1394 | 16 | 58 | 12 | 25 | *Venus in Pisc. 6.° Mer.* |
| | | $08\frac{1}{3}$ | | ———— iter. | 58 | 13 | 00 | 1394 | 32 | 58 | 12 | 50 | |
| | | $14\frac{1}{2}$ | | ———— denuo | 58 | 13 | 05 | 1394 | 54 | 58 | 13 | 22 | |
| | | 35 | | à limbo Solis proximo —— | 38 | 46 | 15 | 928 | 53 | 38 | 46 | 22 | |
| | | $39\frac{1}{3}$ | | ———— rep. | 38 | 47 | 15 | 928 | 93 | 38 | 47 | 22 | |
| | 19 | 04 | | ———— iter. | 38 | 49 | 20 | 929 | 74 | 38 | 49 | 24 | |
| | | 07 | | ———— iter. | 38 | 49 | 15 | 929 | 74 | 38 | 49 | 24 | |
| | | 10 | | ———— denuo. | 38 | 49 | 20 | 929 | 77 | 38 | 49 | 28 | |

| | Anno Christi MDCLXXX. Mense, Die, Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ☿ Mar. 24 vel ♃ 25 mane. | 19 12 1/2 | *Venus* | à limbo Solis remotiore | 39 21 40 | 942 52 | 39 21 24 |
| | | 14 1/2 | | rep. | 39 21 35 | 942 47 | 39 21 16 |
| | | 16 1/2 | | in equali Altitudine—iter. | 39 21 40 | 942 51 | 39 21 22 |
| *Venus in Ariet. 14° Merid. Direct.* | ☉ Apr. 25 vel ☽ 26 mane. | 17 32 | *Venus* | à limbo Solis proximo | 31 57 50 | 765 06 | 31 57 30 |
| | | 35 | | à limbo Solis remoto | 32 29 30 | 777 74 | 32 29 12 |
| | | 41 | | iter. | 32 29 30 | 777 66 | 32 29 00 |
| | | 19 46 | | à limbo Solis proximo | 31 57 00 | 764 75 | 31 56 44 |
| *Venus in Ariet 25° Mer. Dir.* | ☿ Jun. 2 vel ♃ 3 mane. | 15 50 | *Venus* | à limbo Solis proximo | 22 30 35 | 538 82 | 22 30 22 |
| | | 54 1/2 | | rep. | 22 31 45 | 539 32 | 22 31 37 |
| | | 23 30 | | iterum | 22 33 55 | 540 41 | 22 34 21 |
| | | 35 | | denuo | 22 34 05 | 540 50 | 22 34 35 |
| | | 40 | | à limbo Solis remoto | 23 05 40 | 553 00 | 23 05 58 |
| | | 44 | | rep. | 23 05 25 | 552 92 | 23 05 46 |
| *Venus in Tauri 0° Mer. Dir.* | ♂ 8 vel ☿ 9 mane. | 21 49 | *Venus* | à limbo Solis proximo | 21 01 55 | 503 57 | 21 01 50 |
| | | 50 1/3 | | | 21 01 45 | 503 54 | 21 01 45 |
| | | 52 2/3 | | à limbo Solis remoto | 21 33 05 | 516 03 | 21 33 07 |
| | | 54 1/2 | | | 21 33 05 | 516 04 | 21 33 09 |
| *Venus in Tauri 12° Mer. Dir.* | ♀ Jun. 18 vel ♄ 19 mane. | 20 48 | *Venus* | à limbo Solis proximo | 18 24 50 | 441 03 | 18 24 45 |
| | | 51 | | rep. | 18 24 35 | 440 94 | 18 24 31 |
| | | 54 | | à limbo Solis remoto | 18 56 00 | 453 52 | 18 56 02 |
| | | 56 | | | 18 55 55 | 453 53 | 18 56 03 |
| | ♀ Nov. 26 vel ♄ 27 mane. | 20 09 | *Spica Virginis* | à limbo Solis remoto | 56 51 00 | 1361 53 | 56 50 54 |
| | | 13 1/3 | | rep. | 56 53 45 | 1362 62 | 56 53 37 |
| | | 18 1/8 | | iter. | 56 56 20 | 1363 64 | 56 56 10 |
| | | 22 1/4 | | iter. | 56 57 50 | 1364 28 | 56 57::45 |
| | | 20 27 1/4 | | à limbo Solis remoto | 56 59 35 | 1364 98 | 56 59 31 |
| | | 43 4/5 | | iter. | 57 03 15 | 1366 44 | 57 03 09 |
| | | 47 | | denuo | 57 04 05 | 1366 81 | 57 04 05 |
| *Venus in Capr. 9° Mer. Dir.* | ♄ 27 | 2 44 1/2 | *Venus* | à limbo Solis proximo | 22 52 20 | 547 53 | 22 52 15 |
| | | 49 1/2 | | rep. | 22 52 20 | 547 55 | 22 52 18 |
| | | 51 1/2 | | à limbo Solis remoto | 23 24 40 | 560 48 | 23 24 44 |
| | | 54 | | rep. | 23 24 50 | 560 56 | 23 24 56 |
| *Venus in Capr. 15° Mer. Dir.* | ♃ Dec. 2 | 2 00 | *Venus* | à limbo Solis remoto | 24 33 25 | 587 98 | 24 33 36 |
| | | 4 | | rep. | 24 33 35 | 588 17 | 24 34 05 |
| | | 5 1/2 | | à limbo Solis proximo | 24 00 55 | 574 96 | 24 01 00 |
| | | 7 | | rep. | 24 00 55 | 574 98 | 24 01 03 |
| | MDCLXXXI. | | | | | | |
| *Venus in Pisc. 21° Sept. Dir.* | ☉ Jan. 23 vel ☽ 24 mane. | 22 49 1/3 | *Venus* | à limbo Solis proximo | 35 23 10 | 847 21 | 35 22 55 |
| | | 53 1/4 | | rep. | 35 23 10 | 847 30 | 35 23 09 |
| | | 54 1/3 | | à limbo Solis remoto — : · | 35 56 00 | 860 13 | 35 55 15 |
| | | 57 1/4 | | rep. | 35 56 00 | 860 34 | 35 55 46 |
| *Venus in Pisc. 21. Merid. Dir.* | ☽ 24 | 5 18 | *Venus* | à lucida Arietis | 43 03 20 | 1031 47 | 43 04 22 |
| | | 21 2/3 | | rep. | 43 03 15 | 1031 37 | 43 04 08 |
| | | 23 | | iter. | 43 03 05 | 1031 31 | 43 03 59 |
| *Venus in Ariet. 4° Mer. Dir.* | ♃ Feb. 3 | 22 21 | *Venus* | à limbo Solis proximo | 37 31 15 | 898 35 | 37 30 51 |
| | | 34 | | rep. | 37 31 15 | 898 35 | 37 30 51 |
| | | 35 2/3 | | à limbo Solis remoto | 38 03 30 | 911 32 | 38 03 18 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. M. H. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♃ Feb. 3 | 22 38 | *Venus* — à limb. ☉ⁱˢ remot. (*just. arctior*) iter. | 38 03 20 | 911 27 | 38 03 11 | |
| | 39½ | — denuo | 38 03 30 | 911 32 | 38 03 18 | |
| | | *Aere valde tranquillo & sereno eodem die post merid. vel 4.* | | | | |
| ♀ 4 | 5 32¾ | *Venus* — à lucida Arietis — :: | 30 16 45 | 725 38 | 30 18 01 | *Venus in Ariet. 4½° Mer. Dir.* |
| | 36 | — rep. :: | 30 16 45 | 725 30 | 30 17 57 | |
| ♂ 22 | 7 01¼ | *Venus* — à Palilicio — | 39 48 25 | 953 72 | 39 49 30 | |
| | 4¼ | — rep. | 39 48 20 | 953 70 | 39 49 27 | *Venus in Ariet. 26° Mer. Dir.* |
| | 9 | à mediâ in Cingulo Andr. :: | 28 58 20 | 693 56 | 28 58 16 | |
| | 10¼ | — rep. | 28 58 20 | 693 56 | 28 58 16 | |
| | 22 50½ | à limbo Solis remoto — | 41 25 25 | 992 14 | 41 25 51 | |
| | 54¼ | — rep. | 41 25 15 | 992 15 | 41 25 52 | |
| | 56⅒ | à limbo Solis proximo — | 40 52 30 | 979 17 | 40 53 20 | |
| | 58⅓ | — iter. | 40 52 45 | 979 33 | 40 53 44 | |
| | 23 00 | — denuo | 40 52 50 | 979 37 | 40 53 50 | |
| | 02 | Venere in eadem fere altitudine cum Sole versante, ab altero limbo — | 41 25 25 | 992 19 | 41 25 58 | |
| | | *deinde post meridiem* — | | | | |
| ☿ 23 | 2 16⅙ | *Venus* — à limbo Solis remoto — | 41 26 10 | 992 57 | 41 26 55 | *Venus in Ariet. 27° Merid. Dir.* |
| | 19½ | — rep. | 41 26 10 | 992 56 | 41 26 54 | |
| | 23½ | à limbo Solis proximo — | 40 53 25 | 979 66 | 40 54 33 | |
| | 26 | — rep. | 40 53 25 | 979 66 | 40 54 33 | |
| | 5 38⅓ | à Palilicio — | 38 45 15 | 928 36 | 38 45 57 | |
| | 40½ | — rep. | 38 45 05 | 928 31 | 38 45 50 | |
| ♃ 24 *vel* ♀ 25 *mane.* | 22 30 | *Venus* — à limbo Solis proximo — | 41 12 15 | 986 86 | 41 12 35 | |
| | 34 | — rep. | 41 12 00 | 986 79 | 41 12 26 | |
| | 37¼ | à limbo Solis remoto — | 41 44 45 | 999 73 | 41 44 52 | *Venus in Ariet. 29° Sept. Dir.* |
| | 38⅙ | — rep. | 41 44 45 | 999 76 | 41 44 57 | |
| | | *deinde post meridiem* — | | | | |
| ♀ 25 | 6 51⅓ | *Venus* — à Palilicio — | 36 26 10 | 872 72 | 36 26 45 | *Venus in Tauri 0½° Sept. Dir.* |
| | 54 | — rep. | 36 26 05 | 872 70 | 36 26 42 | |
| | 58½ | à secundâ Arietis — | 7 35 35 | 181 64 | 7 35 22 | |
| | 7 01 | — rep. | 7 35 40 | 181 66 | 7 35 25 | |
| ☉ 27 *vel* ☽ 28 *mane.* | 22 37 | *Venus* — à limbo Solis proximo — | 41 40 45 | 998 28 | 41 41 13 | |
| | 39⅓ | — rep. | 41 40 40 | 998 23 | 41 41 06 | *Venus in Tauri. 2½° Sept. Dir.* |
| | 41⅓ | à limbo Solis remoto — | 42 12 55 | 1011 17 | 42 13 32 | |
| | 44⅛ | — rep. | 42 12 55 | 1011 13 | 42 13 26 | |
| | 46⅓ | — iter. | 42 13 00 | 1011 19 | 42 13 35 | |
| ☿ Mar. 9 *vel* ♃ 10 *mane.* | 22 57 | *Venus* — à limbo Solis remoto — | 43 39 00 | 1045 39 | 43 39 15 | |
| | 59½ | — rep. | 43 38 50 | 1045 34 | 43 39 08 | *Venus in Tauri 14° Sept. Dir.* |
| | 23 01½ | à limbo Solis proximo — | 43 06 45 | 1032 54 | 43 07 03 | |
| | 03 | — rep. | 43 06 50 | 1032 59 | 43 07 10 | |
| ☽ 14 *vel* ♂ 15 *mane.* | 22 56¼ | *Venus* — à limbo Solis proximo — | 43 44 10 | 1047 44 | 43 44 22 | |
| | 59 | — rep. | 43 44 10 | 1047 43 | 43 44 21 | *Venus in Tauri 19°½ Sept. Dir.* |
| | 23 04⅓ | à limbo Solis remoto — | 44 16 05 | 1060 33 | 44 16 39 | |
| | 07⅓ | — rep. | 44 16 05 | 1060 33 | 44 16 39 | |
| ♃ 24 | 7 29 | *Venus* — à Calce Castoris — | 31 32 00 | 755 07 | 31 32 30 | *Venus in Tauri. 29°½ Sept. Dir.* |
| | 31⅓ | — rep. | 31 31 40 | 754 94 | 31 32 10 | |

| | Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ♃ Mar. 24 | 7 $34\frac{1}{6}$ | *Venus* — | à lucido latere Persei — | 27 28 15 | 657 62 | 27 28 16 |
| | | $36\frac{1}{3}$ | | — rep. | 27 28 20 | 657 67 | 27 28 24 |
| | | 41 | *Lucid. latus Persei* | à Calce Geminorum — | 44 14 10 | 1059 60 | 44 14 50 |
| | | $44\frac{1}{2}$ | | — rep. | 44 14 05 | 1059 59 | 44 14 48 |
| *Venus in Gem. 7° Sept. Dir.* | ♃ 31 | 7 53 | *Venus* — | à Calce Castoris — | 24 19 00 | 582 45 | 24 19 45 |
| | | 55 | | — rep. | 24 19 00 | 582 45 | 24 19 45 |
| *Venus in Gem. 13° Sept. Dir.* | ♂ Apr. 5 | 22 $47\frac{1}{6}$ | *Venus* — | à limbo Solis remoto — | 45 52 10 | 1098 59 | 45 52 32 |
| | | 51 | | — rep. | 45 52 10 | 1098 52 | 45 52 22 |
| | | 53 | | à limbo Solis proximo — | 45 19 55 | 1085 78 | 45 20 24 |
| | | $54\frac{1}{2}$ | | — rep. | 45 20 00 | 1085 83 | 45 20 31 |
| | | | *Post Meridiem.* | | | | |
| *Venus in Gem. 13° Sept. Dir.* | ☿ 6 | 7 $40\frac{1}{3}$ | *Venus* — | à Polluce — | 35 57 55 | 861 33 | 35 58 15 |
| | | $44\frac{1}{3}$ | | — rep. | 35 57 45 | 861 26 | 35 58 05 |
| | | $47\frac{1}{3}$ | | — iter. | 35 57 40 | 861 24 | 35 58 01 |
| *Venus in Gem. 14° ½ Sept. Dir. Juxta Max. Elong.* | ♃ 7 | 22 $24\frac{4}{5}$ | *Venus* — | à limbo Solis remoto — | 45 53 40 | 1099 09 | 45 53 46 |
| | | $27\frac{1}{2}$ | | — rep. | 45 53 40 | 1099 06 | 45 53 42 |
| | | $29\frac{1}{6}$ | | à limbo Solis proximo — | 45 21 30 | 1086 32 | 45 21 45 |
| | | $31\frac{1}{4}$ | | — rep. | 45 21 30 | 1086 34 | 45 21 48 |
| | | $33\frac{1}{2}$ | | à limbo Solis remoto iter. | 45 53 30 | 1098 96 | 45 53 27 |
| | | | *Post Meridiem.* | | | | |
| *Venus in Gem. 15° Sept. Dir.* | ♀ 8 | 7 $46\frac{1}{4}$ | *Venus* — | à Polluce — | 34 00 15 | 814 34 | 34 00 45 |
| | | $50\frac{1}{4}$ | | — rep. | 34 00 05 | 814 26 | 34 00 33 |
| | | 8 $21\frac{1}{3}$ | | ab Aurigæ quæ sub Capel. ε | 17 29 20 | 418 97 | 17 29 28 |
| | *vel* ♄ 9 *mane.* | 22 24 | | à limbo Solis proximo — | 45 21 20 | 1086 48 | 45 22 09 |
| | | $28\frac{1}{4}$ | | — rep. | 45 21 30 | 1086 43 | 45 22 02 |
| | | | Faber *habuit cum Operario. Venere paululùm prætergressâ Jovis Conjunctionem; vide Observationes Jovis hujus noctis.* | | | | |
| *Venus in Gem. 17° ¼ Sept. Dir. Juxta Max. Elong.* | ☉ 10 | 22 35 | *Venus* — | à limbo Solis proximo — | 45 20 30 | 1085 90 | 45 20 42 |
| | | 43 | | — rep. | 45 20 30 | 1085 84 | 45 20 33 |
| | | 45 | | à limbo Solis remoto — | 45 52 10 | :: | |
| | | 50 | | — rep. | 45 52 25 | 1098 63 | 45 52 37 |
| | | 53 | | — iter. | 45 52 30 | 1098 73 | 45 52 52 |
| | | 23 00 | | à limbo Solis proximo — | 45 20 30 | 1085 94 | 45 20 48 |
| | | | *Deinde post Meridiem.* | | | | |
| *Venus in Gem. 18° Sept. Dir.* | ☽ 11 | 6 $18\frac{1}{8}$ | *Venus* — | à limbo Solis proximo — | 45 15 00 | 1083 88 | 45 15 37 |
| *Venus in Gem. 26° ½ Sept. Dir.* | ♃ 21 | 0 $28\frac{1}{3}$ | *Venus* — | à limbo Solis proximo — | 44 43 45 | 1071 53 | 44 44 42 |
| | | $33\frac{1}{4}$ | | — rep. | 44 43 45 | 1071 51 | 44 44 39 |
| | | $35\frac{1}{6}$ | | à limbo Solis remoto — | 45 15 30 | 1084 08 | 45 16 09 |
| | | $38\frac{1}{3}$ | | — rep. | 45 15 45 | 1084 18 | 45 16 24 |
| | | 4 $13\frac{1}{2}$ | | — iter. | 45 14 10 | 1083 59 | 45 14 54 |
| | | $20\frac{1}{2}$ | | à limbo Solis proximo — | 44 42 10 | 1070 87 | 44 43 03 |
| | | 8 $39\frac{1}{3}$ | | à Polluce — | 22 07 40 | 530 02 | 22 08 15 |
| | | $41\frac{1}{3}$ | | — rep. | 22 07 40 | 530 02 | 22 08 15 |
| | | 9 $01\frac{1}{3}$ | | à Capella — | 21 11 15 | 507 35 | 21 11 20 |
| | | $04\frac{1}{4}$ | | — iter. | 21 11 10 | 507 32 | 21 11 15 |
| | | $08\frac{1}{3}$ | | à Polluce iterùm — | 22 06 50 | 529 61 | 22 07 13 |
| | | $10\frac{2}{3}$ | | — rep. | 22 06 30 | 529 53 | 22 07 02 |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° | ′ | ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. | Cent. | ° | ′ | ″ | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ♀ Apr. 22 | 0 14 | *Venus* —— à limbo Solis remoto —— | 45 | 08 | 50 | 1081 | 37 | 45 | 09 | 20 | *Venus in Gem. 27° ½ Sept. Dir.* |
| | 16⅔ | —————— rep. | 45 | 08 | 50 | 1081 | 37 | 45 | 09 | 20 | |
| | 19 | à limbo Solis proximo —— | 44 | 36 | 55 | 1068 | 67 | 44 | 37 | 28 | |
| | 20⅔ | —————— rep. | 44 | 36 | 55 | 1068 | 66 | 44 | 37 | 27 | |
| | 7 51½ | à Polluce —————— | 21 | 19 | 05 | 510 | 69 | 21 | 19 | 42 | |
| | 56 | —————— rep. | 21 | 19 | 10 | 510 | 73 | 21 | 19 | 48 | |
| | 57 | —————— iterùm | 21 | 19 | 10 | 510 | 72 | 21 | 19 | 47 | |
| ☉ 24 | 23 50½ | *Venus* —— à limbo Solis remoto —— | 44 | 44 | 00 | 1071 | 59 | 44 | 44 | 51 | *Venus in Canc. 0° Sept. Dir. juxta Limit. Boreum.* |
| | 54 | —————— rep. | 44 | 44 | 00 | 1071 | 60 | 44 | 44 | 52 | |
| | 57 | à limbo Solis proximo — | 44 | 12 | 10 | 1058 | 80 | 44 | 12 | 50 | |
| | 59½ | —————— rep. | 44 | 12 | 10 | 1058 | 80 | 44 | 12 | 50 | |
| | | *Post Meridiem.* | | | | | | | | | |
| ☽ 25 | 1 24 | *Venus* —— à limbo Solis prox. – iter. | 44 | 11 | 25 | 1058 | 53 | 44 | 12 | 09 | *Venus in Canc. 0° Sept. Dir. in Limit. Bor.* |
| | 26⅓ | —————— denuo. | 44 | 11 | 25 | 1058 | 54 | 44 | 12 | 10 | |
| | 30 | à limbo Solis remoto —— | 44 | 42 | 50 | 1071 | 10 | 44 | 43 | 37 | |
| | 32 | —————— iter. | 44 | 42 | 50 | 1071 | 14 | 44 | 43 | 43 | |
| | 39 | —————— denuo. | 44 | 42 | 50 | 1071 | 10 | 44 | 43 | 57 | |
| | 8 46⅔ | à Polluce —————— | 18 | 51 | 50 | 451 | 96 | 18 | 52 | 07 | |
| | 50 | —————— rep. | 18 | 51 | 50 | 451 | 97 | 18 | 52 | 09 | |
| ♂ 26 | 0 16⅓ | *Venus* —— a limbo Solis remoto —— | 44 | 33 | 40 | 1067 | 34 | 44 | 34 | 12 | *Venus in Canc. 1° Sept. Dir.* |
| | 18⅔ | —————— rep. | 44 | 33 | 40 | 1067 | 36 | 44 | 34 | 15 | |
| | 19½ | à limbo Solis proximo — | 44 | 02 | 00 | 1054 | 70 | 44 | 02 | 35 | |
| | 21 | —————— rep. | 44 | 02 | 00 | 1054 | 69 | 44 | 02 | 33 | |
| | 8 20½ | à Polluce —————— | 18 | 05 | 45 | 433 | 64 | 18 | 06 | 15 | |
| | 22⅓ | —————— rep. | 18 | 05 | 50 | 433 | 64 | 18 | 06 | 15 | |
| | 29½ | ab Humero ſequent. Aurigæ | 18 | 30 | 30 | 443 | 23 | 18 | 30 | 16 | |
| ♂ Maij 24 *vel* ♀ 25 *mane.* | 21 15¼ | *Venus* —— à limbo Solis remoto —— | 31 | 17 | 05 | 748 | 88 | 31 | 17 | 02 | *Venus in Canc. 15° Sept. Dir. juxta Stat. primam.* |
| | 17⅔ | —————— rep. | 31 | 17 | 10 | 748 | 91 | 31 | 17 | 06 | |
| | 19 | à limbo Solis proximo —— | 30 | 45 | 25 | 736 | 23 | 30 | 45 | 18 | |
| | 21¼ | —————— rep. | 30 | 45 | 25 | | | | | | |
| ☿ 25 *vel* ♃ 26 *mane.* | 23 24 | *Venus* —— à limbo Solis remoto —— | 30 | 18 | 45 | 725 | 75 | 30 | 18 | 58 | *Venus in Canc. 15° Sept. Stat.* |
| | 26 | —————— rep. | 30 | 18 | 45 | 725 | 76 | 30 | 19 | 00 | |
| | 27⅓ | à limbo Solis proximo —— | 29 | 47 | 25 | 713 | 10 | 29 | 47 | 13 | |
| | 29⅓ | —————— rep. | 29 | 47 | 15 | 713 | 04 | 29 | 47 | 05 | |
| ☽ 30 | 0 00½ | *Venus* —— à limbo Solis remoto —— | 26 | 21 | 00 | 630 | 93 | 26 | 21 | 18 | *Venus in Canc. 15° Sept. Ret.* |
| | 06 | —————— rep. | 26 | 20 | 40 | 630 | 78 | 26 | 20 | 55 | |
| | 07 | à limbo Solis proximo — :: | 25 | 48 | 30 | 618 | 16 | 25 | 49 | 16 | |
| ☽ Aug. 1 *vel* ♂ 2 *mane.* | 15 56¼ | *Venus* —— à Palilicio —————— | 31 | 49 | 20 | 761 | 90 | 31 | 49 | 36 | *Venus in Canc. 7° Sept. Dir.* |
| | 58 | —————— rep. | 31 | 49 | 30 | 762 | 00 | 31 | 49 | 51 | |
| | 16 22⅓ | —————— iterùm | 31 | 50 | 40 | 762 | 26 | 31 | 50 | 30 | |
| | 29 | —————— iter. | 31 | 50 | 55 | 762 | 32 | 31 | 50 | 39 | |
| | 36½ | —————— denuo | 31 | 51 | 15 | 762 | 44 | 31 | 50 | 57 | |
| | 42⅓ | à limbo Solis remoto —— | 42 | 42 | 25 | 1022 | 64 | 42 | 42 | 15 | |
| | 49¼ | —————— rep. | 42 | 48 | 25 | 1025 | 01 | 42 | 48 | 10 | |
| | 52 | —————— iterùm | 42 | 49 | 55 | 1025 | 63 | 42 | 49 | 45 | |
| | 54⅔ | —————— iter. | 42 | 51 | 05 | 1026 | 08 | 42 | 50 | 53 | |
| | 56 | —————— iter. | 42 | 51 | 50 | 1026 | 37 | 42 | 51 | 36 | |
| | 21 11⅚ | —————— iter. | 43 | 06 | 20 | 1032 | 25 | 43 | 06 | 20 | |
| | 15⅔ | —————— denuo | 43 | 06 | 30 | 1032 | 23 | 43 | 06 | 17 | |
| | 18½ | à limbo Solis proximo —— | 42 | 34 | 45 | 1019 | 60 | 42 | 34 | 38 | |
| | 20½ | —————— rep. | 42 | 35 | 05 | 1019 | 77 | 42 | 35 | 03 | |

| | Anno Christi MDCLXXXI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Diſtantia per lineas diagonales. ° | ′ | ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. | Cent. | ° | ′ | ″ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ♂ Aug. 2 | 0 51¼ | *Venus* —— à limbo Solis proximo —— | 42 | 37 | 00 | 1020 | 76 | 42 | 37 | 33 |
| | | 55 | —— rep. | 42 | 37 | 15 | 1020 | 85 | 42 | 37 | 46 |
| | | 57½ | à limbo Solis remoto —— | 43 | 09 | 05 | 1033 | 55 | 43 | 09 | 35 |
| | | 59¼ | —— rep. | 43 | 09 | 10 | 1033 | 54 | 43 | 09 | 33 |
| *Venus in Canc. 8°½ Mer. Dir.* | ☿ 3 *vel* ♃ 4 *mane.* | 23 19½ | *Venus* —— à limbo Solis proximo —— | 43 | 08 | 40 | 1033 | 31 | 43 | 08 | 59 |
| | | 22 | —— rep. | 43 | 08 | 45 | 1033 | 41 | 43 | 09 | 13 |
| | | 25 | à limbo Solis remoto —— | 43 | 40 | 45 | 1046 | 10 | 43 | 41 | 01 |
| | | 27 | —— rep | 43 | 40 | 45 | 1046 | 08 | 43 | 40 | 58 |
| *Venus in Canc. 10° Mer. Dir.* | ♀ 5 | 23 51 | *Venus* —— à limbo Solis remoto —— | 44 | 09 | 10 | 1057 | 66 | 44 | 09 | 58 |
| *Venus in Canc. 21°½ Merid. Dir.* | ♀ 19 *vel* ♄ 20 *mane.* | 23 07½ | *Venus* —— à limbo Solis remoto —— | 46 | 03 | 25 | 1103 | 04 | 46 | 03 | 47 |
| | | 28½ | —— rep. | 46 | 03 | 25 | 1103 | 06 | 46 | 03 | 45 |
| | | 30 | à limbo Solis proximo —— | 45 | 31 | 10 | 1090 | 26 | 45 | 31 | 39 |
| | | 32 | —— rep. | 45 | 31 | 20 | 1090 | 34 | 45 | 31 | 51 |
| *Venus in Canc. 24° Mer. Dir.* | ☽ 22 *vel* ♂ 23 *mane.* | 23 35 | *Venus* —— à limbo Solis remoto —— | 46 | 11 | 45 | 1106 | 42 | 46 | 12 | 10 |
| | | 37½ | —— rep. | 46 | 11 | 45 | 1106 | 40 | 46 | 12 | 07 |
| | | 40 | à limbo Solis proximo —— | 45 | 39 | 35 | 1093 | 63 | 45 | 40 | 05 |
| | | 42 | —— rep. | 45 | 39 | 35 | 1093 | 65 | 45 | 40 | 08 |
| *Venus in Leonis 7° Mer. Dir.* | ☉ Sept. 4 *vel* ☽ 5 *mane.* | 16 32 | *Venus* —— à Procyone —— | 21 | 01 | 15 | 503 | 30 | 21 | 01 | 09 |
| | | 33 | —— rep. | 21 | 01 | 25 | 503 | 39 | 21 | 01 | 22 |
| | | 35 | à Polluce —— | 20 | 00 | 55 | 479 | 31 | 20 | 00 | 50 |
| | | | *Tùnc denſæ nubes.* | | | | | | | | |
| *Venus in Leonis 10° Mer. Dir.* | ☿ 7 *vel* ♃ 8 *mane.* | 23 30 | *Venus* —— à limbo Solis proximo —— | 45 | 20 | 45 | 1086 | 25 | 45 | 21 | 35 |
| | | 32½ | —— rep. | 45 | 21 | 00 | 1086 | 32 | 45 | 21 | 45 |
| | | 41 | à limbo Solis remoto —— | 45 | 52 | 55 | 1098 | 98 | 45 | 53 | 30 |
| | | 42½ | —— rep. | 45 | 52 | 55 | 1098 | 94 | 45 | 53 | 24 |
| *Venus in Leonis 20° Mer. Dir.* | ♀ 16 *vel* ♄ 17 *mane.* | 15 55 | *Venus* —— à Polluce —— | 31 | 37 | 55 | 757 | 28 | 31 | 38 | 01 |
| | | 59 | à Regulo —— | 05 | 48 | 10 | 138 | 77 | 05 | 47 | 58 |
| | | 16 01 | —— rep. | 05 | 48 | 10 | 138 | 78 | 05 | 48 | 00 |
| | | 17 32¼ | —— iterùm | 05 | 44 | 40 | 137 | 26 | 05 | 44 | 10 |
| | | 35¼ | —— denuo. | 05 | 44 | 35 | 137 | 23 | 05 | 44 | 06 |
| | | 22 51⅓ | à limbo Solis remoto —— | 45 | 07 | 30 | 1080 | 59 | 45 | 07 | 21 |
| | | 56½ | à limbo Solis proximo —— | 44 | 35 | 10 | 1067 | 73 | 44 | 35 | 10 |
| | | 58¼ | —— rep. | 44 | 35 | 15 | 1067 | 77 | 44 | 35 | 16 |
| | ♄ 17 | 2 57 | *Venus* —— à limbo Solis proximo —— | 44 | 34 | 10 | 1067 | 55 | 44 | 34 | 46 |
| | | | *per D.* Streetium *&* Colſonum. | | | | | | | | |
| | | 3 04 | per meipſum —— rep. | 44 | 34 | 00 | 1067 | 49 | 44 | 34 | 35 |
| *Venus in Leonis 24° Mer. Dir.* | ♂ 20 *vel* ☿ 21 *mane.* | 22 52 | *Venus* —— à limbo Solis proximo —— | 44 | 08 | 45 | 1057 | 19 | 44 | 08 | 48 |
| | | 56½ | —— rep. | 44 | 08 | 55 | 1057 | 28 | 44 | 09 | 01 |
| | | 23 04 | à limbo Solis remoto —— | 44 | 40 | 45 | 1070 | 05 | 44 | 41 | 00 |
| | | | *Poſt Meridiem.* | | | | | | | | |
| *Venus in Leo. Mer. 25° Dir. juxta Nodum Boreum.* | ☿ 21 | 2 27½ | *Venus* —— per nubes, à miniſtro – rep. | 44 | 40 | 20 | | | | | |
| | | 32½ | —— à meipſo – iter. | 44 | 39 | 40 | 1069 | 83 | 44 | 40 | 27 |
| | | 36 | —— denuo. | 44 | 39 | 35 | 1069 | 77 | 44 | 40 | 18 |
| | | 38 | à limbo Solis proximo —— | 44 | 08 | 30 | 1056 | 97 | 44 | 08 | 15 |
| | | 39¼ | —— iter. | 44 | 08 | 35 | 1057 | 00 | 44 | 08 | 20 |
| | | 16 45½ | à Reg. Tub. brev. 4892 = | 00 | 40 | 13 | | | | | |
| | | 50 | —— rep. 4875 = | 00 | 40 | 05 | | | | | |

| Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| ☿ Sept. 21 | 17::00 | Altitudinum Differentia ——— 1135 = | 00 09 20 | | | |
| | 05 | *Venus* ——— à Regulo rep. — 4915 = | 00 40 25 | | | |
| | | *Sed nòn omninò accuratè propter vitium Instrumenti.* | | | | |
| ☿ 28 *vel* ♃ 29 *mane.* | 23 26 | *Venus* ——— à limbo Solis proximo —— | 43 06 45 | 1032 36 | 43 06 36 | *Venus in Virg. 3° Sept. Dir.* |
| | 29 | ——— rep. | 43 06 50 | 1032 37 | 43 06 37 | |
| | 31 | à limbo Solis remoto —— | 43 39 00 | 1045 21 | 43 38 48 | |
| | 33 | ——— rep. | 43 38 55 | 1045 16 | 43 38 40 | |
| ♃ 29 *vel* ♀ 30 *mane.* | 17 15½ | *Venus* ——— à Regulo ——— | 08 47 20 | 210 42 | 08 47 28 | *Venus in Virg. 4° Sept. Dir.* |
| | 19½ | ——— rep. | 08 47 35 | 210 50 | 08 47 40 | |
| | 50⅓ | ——— iter. | 08 49 10 | 211 15 | 08 49 18 | |
| ♀ 30 | 0 02½ | *Venus* ——— à limbo Solis remoto —— | 43 30 45 | 1042 04 | 43 30 51 | |
| | 05 | ——— rep. | 43 30 40 | 1042 02 | 43 30 48 | |
| | 07 | à limbo Solis proximo — | 42 58 20 | 1029 19 | 42 58 39 | |
| | 10 | ——— rep. | 42 58 20 | 1029 20 | 42 58 40 | |
| ☉ Oct. 2 *vel* ☽ 3 *mane.* | 18 01 | *Venus* ——— à Regulo ——— | 12 14 30 | 293 18 | 12 14 24 | *Venus in Virg. 7°½ Sept. Dir.* |
| | 33 | ——— rep. | 12 16 10 | 293 83 | 12 16 13 | |
| | 36 | ——— iter. | 12 16 20 | 293 88 | 12 16 21 | |
| | 43 | ——— iter. | 12 16 50 | 294 08 | 12 16 51 | |
| | 45 | ——— denuo | 12 15 45 | 294 05 | 12 16 46 | |
| | 23 27 | à limbo Solis remoto —— | 43 04 05 | 1031 35 | 43 04 05 | |
| | 30 | ——— rep. | 43 04 10 | 1031 37 | 43 04 07 | |
| | 31½ | ——— iter. | 43 04 15 | 1031 41 | 43 04 13 | * |
| | 34½ | à limbo Solis proximo — | 42 32 10 | 1018 62 | 42 32 10 | |
| | 36 | ——— rep. | 42 32 05 | 1018 54 | 42 31 59 | * |
| | | *Flante vento, sed diligentèr, & quæ Asterisco notantur, opportunitatibus magis quietis.* | | | | |
| ☽ 3 *vel* ♂ 4 *mane.* | 18 27 | *Venus* ——— à Regulo ——— | 13 25 00 | 321 18 | 13 24 42 | *Venus in Virg. 9° Sept. Dir.* |
| | 29½ | ——— rep. | 13 25 10 | 321 25 | 13 24 52 | |
| | 31½ | ——— iter. | 13 25 10 | 321 32 | 13 25 03 | |
| | 43 | ——— denuo | 13 25 40 | 321 53 | 13 25 35 | * |
| | 45½ | (*Orto Sole.*) ——— iter. | 13 25 45 | 321 55 | 13 25 38 | * |
| | 47½ | ——— rep. | 13 25 55 | 321 61 | 13 25 46 | |
| | 51 | ——— iter. | 13 26 05 | 321 68 | 13 25 57 | |
| | 23 36½ | à limbo Solis proximo — | 42 22 45 | 1014 91 | 42 22 52 | |
| | 41 | ——— rep. | 42 22 45 | 1014 91 | 42 22 52 | |
| | 43 | à limbo Solis remoto —— | 42 55 15 | 1027 76 | 42 55 05 | |
| | 45½ | ——— rep. | 42 55 20 | 1027 78 | 42 55 08 | |
| ♃ Nov. 17 *vel* ♀ 18 *mane.* | 22 58 | *Venus* ——— à limbo Solis proximo —— | 33 55 35 | 812 19 | 33 55 21 | *Venus in Scorp. 2°½ Sept. Dir.* |
| | 01½ | ——— rep. | 33 55 15 | 812 04 | 33 54 58 | |
| | 03 | ——— iter. | 33 55 20 | 812 09 | 33 55 06 | |
| | 05 | à limbo Solis remoto —— | 34 27 45 | 825 08 | 34 27 36 | |
| | 07 | ——— rep. | 34 27 40 | 825 04 | 34 27 30 | |
| ♄ 19 *mane.* | 19 03 | *Venus* ——— à Spica Virginis ——— | 14 56 00 | 357 71 | 14 56 06 | |
| | 05 | ——— rep. | 14 56 10 | 357 78 | 14 56 16 | |
| | 09 | ——— iter. | 14 56 30 | 357 88 | 14 56 31 | |
| | 23 52 | à limbo Solis remoto —— | 34 15 00 | 820 00 | 34 14 54 | |
| | 55 | ——— rep. | 34 15 05 | 820 02 | 34 14 57 | |

| | Anno Christi MDCLXXXI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes.* Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♄ Nov. 19 | 23 58½ | *Venus* ——— à limbo Solis proximo — | 33 42 40 | 806 97 | 33 42 18 |
| | | 01½ | ——— rep. | 33 42 35 | 806 97 | 33 42 18 |
| *Venus in Scorp. 7° Sept. Dir.* | ☽ 21 | 19 08 | *Venus* ——— à Spica Virginis ——— | 18 30 45 | 443 34 | 18 30 33 |
| | *vel* ♂ 22 | 11 | ——— rep. | 18 30 55 | 443 41 | 18 30 44 |
| | *mane.* | 12½ | ——— iter. | 18 31 05 | 443 48 | 18 30 54 |
| *Venus in Scorp. 17° Sept. Ret.* | ♂ 29 | 18 57 | *Venus* ——— à Spica Virginis ——— | 28 11 40 | 674 88 | 28 11 31 |
| | *vel* ☿ 30 | 19 42½ | ——— rep. | 28 14 20 | 676 03 | 28 14 24 |
| | *mane.* | 43½ | ——— iter. | 28 14 25 | 676 07 | 28 14 30 |
| *Venus in Sagit. 15° Sept. Dir.* | ☿ Dec. 21 | 23 35 | *Venus* ——— à limbo Solis proximo — | 26 24 30 | 632 28 | 26 24 42 |
| | *vel* ♃ 22 | 41 | ——— rep. | 26 24 40 | 632 33 | 26 24 50 * |
| | *mane.* | 42½ | à limbo Solis remoto — | 26 57 35 | 645 33 | 26 57 27 |
| | | 44 | ——— rep. | 26 57 30 | 645 29 | 26 57 21 * |
| *Venus in Sagit. 17° Sept. Dir.* | ♀ 23 | 23 43 | *Venus* ——— à limbo Solis remoto — | 26 29 50 | 634 37 | 26 29 57 |
| | *vel* ♄ 24 | 47 | ——— rep. | 26 29 55 | 634 42 | 26 30 05 |
| | *mane.* | 49 | à limbo Solis proximo — | 25 57 25 | 621 39 | 25 57 22 |
| | | 51 | ——— rep. | 25 57 30 | 621 44 | 25 57 30 |
| *Venus in Sagit. 21° Sept. Dir.* | ☽ 26 | 19 30 | *Venus* ——— à Spica Virginis ——— | 61 33 40 | 1474 68 | 61 33 46 |
| | *vel* ♂ 27 | 37 | ——— rep. | 61 34 15 | 1474 94 | 61 34 25 |
| | *mane.* | 41 | ——— iter. | 61 34 30 | 1475 06 | 61 34 43 |
| | | | *Has* Faber *babuit cum Servo.* | | | |
| | | 23 12 | à limbo Solis remoto — | 25 48 50 | 618 14 | 25 49 13 |
| | | 16 | ——— rep. | 25 48 50 | 618 14 | 25 49 13 |
| | | 19 | à limbo Solis proximo — | 25 16 20 | 605 10 | 25 16 30 |
| | | 21 | ——— rep.:: | 25 16 30 | 605 19 | 25 16 44 |
| | | 23 | ——— iter. | 25 16 20 | 605 11 | 25 16 32 * |
| | MDCLXXXII. | | | | | |
| *Venus in Sagit. 28° Sept. Dir.* | ☉ Jan. 1 | 19 08⅘ | *Venus* ——— ab Antare ——— | 23 35 50 | 564 93 | 23 35 52 |
| | *vel* ☽ 2 | 10⅘ | ——— rep. | 23 36 00 | 564 99 | 23 36 01 |
| | *mane.* | 54 | ——— iter. | 23 39 05 | 566 15 | 23 38 57 |
| | | 23 46 | à limbo Solis proximo — | 23 53 35 | 572 26 | 23 54 13 |
| | | 48 | ——— rep. | 23 53 40 | 572 36 | 23 54 28 |
| | | 49½ | à limbo Solis remoto — | 24 26 15 | 585 28 | 24 26 50 |
| | | 51¼ | ——— rep. | 24 26 10 | 585 25 | 24 26 45 |
| | | 52⅙ | à limbo Solis proximo iter. | 23 53 30 | 572 26 | 23 54 13 |
| *Venus in Capr. 1° Sept. Dir.* | ♂ 3 | 19 20 | *Venus* ——— ab Antare ——— | 26 02 05 | 623 19 | 26 01 52 |
| | | 24 | ——— rep. | 26 02 20 | 623 32 | 26 02 12 |
| *Venus in Capr. 2° Sept. Dir.* | ☿ 4 | 22 27 | *Venus* ——— à limbo Solis remoto — | 23 45 50 | 569 00 | 23 46 03 |
| | *vel* ♃ 5 | 28 | ——— rep. | 23 45 50 | 568 99 | 23 46 02 |
| | *mane.* | 29 | à limbo Solis proximo — | 23 13 35 | 556 00 | 23 13 30 |
| | | 31 | ——— rep. | 23 13 45 | 556 05 | 23 13 37 |
| *Venus in Capr. 25° Mer. Dir.* | ☉ 22 | 22 41 | *Venus* ——— à limbo Solis remoto — | 19 34 45 | 468 98 | 19 34 52 |
| | *vel* ☽ 23 | 43⅓ | ——— rep. | 19 34 55 | 469 07 | 19 35 06 |
| | *mane.* | 45½ | à limbo Solis proximo — | 19 02 25 | 456 08 | 19 02 20 |
| | | 47 | ——— rep. | 19 02 30 | 456 16 | 19 02 39 |
| *Venus in Canc. 5° Sept. Dir.* | ☽ Junij 26 | 2 07⅓ | *Venus* ——— à limbo Solis remoto — | 20 50 55 | 499 35 | 20 51 18 |
| | | 09⅓ | ——— rep. | 20 50 55 | 499 38 | 20 51 22 |

| ANNO CHRISTI MDCLXXXII. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☽ Junij 26 | 2 12 | *Venus* ——— à limbo Solis proximo —— | 20 19 30 | 486 77 | 20 19 36 | |
| | 15 | ——— rep. | 20 19 40 | 486 88 | 20 19 54 | |
| ♀ Aug. 4 | 41 | *Venus* ——— à limbo Solis proximo — | 30 18 35 | 725 63 | 30 18 39 | *Venus in Virg. 22° ½ Sept. Direct.* |
| | 46 | ——— rep. | 30 18 30 | 725 62 | 30 18 37 | |
| | 48 | à limbo Solis remoto —— | 30 50 05 | 738 21 | 30 50 16 | |
| | 51 | ——— rep. | 30 50 15 | 738 31 | 30 50 31 | |
| ♂ Nov. 7 | 1 40 | *Venus* ——— à limbo Solis proximo —— | 46 51 30 | 1122 04 | 46 51 21 | *Venus in Capr. 12° ½ Merid. Dir.* |
| | 43 | ——— rep. | 46 51 30 | 1122 06 | 46 51 24 | |
| | 45 | à limbo Solis remoto —— | 47 24 10 | 1134 98 | 47 23 46 | |
| | 47 | ——— rep. | 47 24 15 | 1135 03 | 47 23 54 | |
| | 2 27 | à limbo Solis remoto rep. | 47 24 45 | 1135 22 | 47 24 22 | |
| | 28 | ——— iterum | 47 24 45 | 1135 20 | 47 24 19 | |
| | 29 | à limbo Solis proximo —— | 46 51 55 | 1122 18 | 46 51 44 | |
| | 31 | (*in equali Alt.*) ——— rep. | 46 51 55 | 1122 10 | 46 51 30 | |
| ♃ 9 | 2 08 | *Venus* ——— à limbo Solis proximo —— | 46 56 50 | 1124 08 | 46 56 28 | *Venus in Capr. 15° Mer. Dir.* |
| | 11 | ——— rep. | 46 56 55 | 1124 11 | 46 56 33 | |
| | 15 | ——— iter. | 46 57 00 | 1124 14 | 46 56 38 | |
| | 16½ | à limbo Solis remoto —— | 47 29 10 | 1136 97 | 47 28 45 | |
| | 18 | ——— rep. | 47 29 20 | 1137 09 | 47 29 03 | |
| ☽ 13 | 0 47 | *Venus* ——— à limbo Solis remoto —— | 47 33 00 | 1138 51 | 47 32 38 | *Venus in Capr. 19° Mer. Dir.* |
| | 50 | ——— rep. | 47 33 10 | 1138 60 | 47 32 51 | |
| | 52 | à limbo Solis proximo —— | 47 00 55 | 1125 71 | 47 00 35 | |
| | 54½ | ——— rep. | 47 00 45 | 1125 66 | 47 00 27 | |
| | 2 09 | ——— iter. | 47 02 10 | 1126 25 | 47 01 55 | |
| | 11½ | ——— denuo | 47 02 10 | 1126 25 | 47 01 55 | |
| | 14 | à limbo Solis remoto —— | 47 34 30 | 1139 16 | 47 34 15 | |
| | 15½ | ——— rep. | 47 34 40 | 1139 24 | 47 34 27 | |
| ☽ 27 | 1 07½ | *Venus* ——— à limbo Solis proximo — | 46 24 30 | 1111 23 | 46 24 15 | *Venus in Capr. 23° Mer. Dir. Elong. Max.* |
| | 14½ | ——— rep. | 46 24 40 | 1111 35 | 46 24 33 | |
| ☽ Dec. 4 | 23 44½ | *Venus* ——— à limbo Solis proximo — | 45 10 10 | | | |
| *vel* ♂ 5 | 1 08½ | ——— rep. | 45 10 40 | 1081 82 | 45 10 27 | *Venus in Aqua. 9° Mer. Dir.* |
| *mane.* | 10 | ——— iter. | 45 10 40 | 1081 84 | 45 10 30 | |
| | 11½ | à limbo Solis remoto —— | 45 43 05 | 1094 79 | 45 43 00 | |
| | 13 | ——— rep. | 45 43 00 | 1094 80 | 45 43 01 | |
| ♃ 14 | 4 54 | *Venus* ——— ab Aquilæ lucida ——— | 34 55 35 | 836 14 | 34 55 15 | *Venus in Aqua. 10° Mer. Dir. juxta Nodum Boreum.* |
| | 5 08 | ab Aquarij x ——— | 19 38 05 | 470 28 | 19 38 07 | |
| ♃ 21 | 0 15 | *Venus* ——— à limbo Solis proximo — | 39 36 35 | 948 65 | 39 36 46 | *Venus in Aqua. 20° Sept. Dir.* |
| | 18 | ——— rep. | 39 36 35 | 948 65 | 39 36 46 | |
| | 19 | à limbo Solis remoto —— | 40 09 20 | 961 58 | 40 09 14 | |
| | 20½ | ——— rep. | 40 09 25 | 961 61 | 40 09 18 | |
| ☽ 25 | 23 45 | *Venus* ——— à limbo Solis proximo — | 36 40 40 | 878 32 | 36 40 45 | *Venus in Aqua. 22° Mer. Dir.* |
| *vel* ♂ 26 | 47 | ——— rep. | 36 40 40 | 878 32 | 36 40 45 | |
| *mane.* | 49 | à limbo Solis remoto —— | 37 13 20 | 891 25 | 37 13 06 | |
| | 52 | ——— rep. | 37 13 20 | 891 23 | 37 13 03 | |

| | Anno Christi MDCLXXXIII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Diſtantia per lineas diagonales. ° ′ ″ | Diſtantia per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Venus in Aqua. 20°½ Sept. Retrogr.* | ♃ Jan. 18 | 22 16 | *Venus* —— à limbo Solis remoto —— | 12 27 20 | 298 34 | 12 27 31 |
| | *vel* ♀ 19 | 19 | —— rep. | 12 27 05 | 298 25 | 12 27 18 |
| | *mane.* | 21 | à limbo Solis proximo —— | 11 54 35 | 285 20 | 11 54 37 |
| | | 24 | —— rep. | 11 54 30 | 285 19 | 11 54 36 |
| *Venus in Aqua. 15° Sept. Dir.* | ☿ Mar. 7 | 22 54 | *Venus* —— à limbo Solis remoto —— | 42 31 00 | 1018 22 | 42 31 10 |
| | *vel* ♃ 8 | 57 | —— rep. | 42 31 05 | 1018 23 | 42 31 12 |
| | *mane.* | | | | | |
| *Venus in Aqua. 16° Sept. Dir.* | ♃ 8 *vel* | 22 12 | *Venus* —— à limbo Solis remoto —— | 42 50 15 | 1025 85 | 42 50 18 |
| | ♀ 9 *mane* | $14\frac{1}{2}$ | —— rep. | 42 50 15 | 1025 85 | 42 50 18 |
| | | $17\frac{1}{2}$ | à limbo Solis proximo —— | 42 18 05 | 1012 98 | 42 18 03 |
| | | 20 | —— rep. | 42 18 05 | 1012 99 | 42 18 05 |
| *Venus in Aqua. 20° Sept. Dir.* | ☿ 14 | 21 $30\frac{1}{4}$ | *Venus* —— à limbo Solis proximo —— | 43 54 25 | 1051 43 | 43 54 22 |
| | | $33\frac{1}{4}$ | —— rep. | 43 54 20 | 1051 41 | 43 54 19 |
| | | 37 | à limbo Solis remoto —— | 44 26 20 | 1064 25 | 44 26 28 |
| | | $38\frac{1}{4}$ | —— rep. | 44 26 15 | 1064 23 | 44 26 25 |
| *Venus in Piſc. 16° Mer. Dir.* | ☿ Apr 11 | 21 12 | *Venus* —— à limbo Solis proximo —— | 45 49 40 | 1097 41 | 45 49 35 |
| | *vel* ♃ 12 | 16 | —— rep. | 45 49 45 | 1097 54 | 45 49 54 |
| | *mane.* | $18\frac{1}{2}$ | à limbo Solis remoto —— | 46 21 40 | 1110 23 | 46 21 44 |
| | | $21\frac{1}{2}$ | —— rep. | 46 21 45 | 1110 26 | 46 21 48 |
| *Venus in Piſc. 29° Mer. Dir.* | ☽ 23 *vel* | 21 07 | *Venus* —— à limbo Solis proximo —— | 44 57 40 | 1076 83 | 44 57 57 |
| | ♂ *mane.* | 10 | —— rep. | 44 57 50 | 1076 87 | 44 58 03 |
| | | $15\frac{1}{2}$ | à limbo Solis remoto —— | 45 29 45 | 1089 62 | 45 30 01 |
| | | 19 | —— rep. | 45 29 35 | 1089 54 | 45 29 50 |
| *Venus in Ariet. 14° Mer. Dir.* | ☽ Maij 7 | 20 $39\frac{1}{2}$ | *Venus* —— à limbo Solis remoto —— | 43 46 35 | 1048 17 | 43 46 12 |
| | | $44\frac{1}{2}$ | —— rep. | 43 46 30 | 1048 35 | 43 46 39 |
| | | 47 | à limbo Solis proximo —— | 43 15 25 | 1035 74 | 43 15 05 |
| | | 49 | —— rep. | 43 15 25 | 1035 77 | 43 15 09 |
| *Venus in Ariet. 24° Mer. Dir.* | ♃ 17 | 20 30 | *Venus* —— à limbo Solis proximo —— | 41 40 00 | 998 06 | 41 40 40 |
| | | 33 | —— rep. | 41 40 45 | 998 16 | 41 40 55 |
| | | 35 | à limbo Solis remoto —— | 42 12 20 | 1010 75 | 42 12 29 |
| | | 38 | —— rep. | 42 12 20 | 1010 72 | 42 12 24 |
| *Venus in Tauri 25° Mer. Dir.* | ☿ Junij 13 | 20 30 | *Venus* —— à limbo Solis remoto —— | 36 58 10 | 885 25 | 36 58 06 |
| | | 38 | —— rep. | 36 58 15 | 885 25 | 36 58 06 |
| | | 40 | à limbo Solis proximo —— | 36 26 55 | 872 75 | 36 26 50 |
| | | 42 | —— rep. | 36 26 35 | 872 64 | 36 26 33 |
| *Venus in Tauri 27° Mer. Dir.* | ♃ 14 | 14 40 | *Venus* —— à lucida Arietis —— | 26 22 50 | 631 61 | 26 23 02 |
| | | 44 | —— rep. | 26 23 25 | 631 82 | 26 23 33 |
| | | 19 31 | à limbo Solis remoto —— | 36 45 40 | 880 26 | 36 45 36 |
| | | 33 | —— rep. | 36 45 45 | 880 34 | 36 45 48 |
| | | 35 | à limbo Solis proximo —— | 36 14 25 | 867 73 | 36 14 17 |
| | | 38 | —— rep. | 36 14 20 | 867 69 | 36 14 10 |
| *Venus in Canc. 14° Mer. Dir.* | ♂ Julij 24 | 2 17 | *Venus* —— à limbo Solis remoto —— | 27 35 55 | 660 85 | 27 36 22 |
| | | 19 | —— rep. | 27 35 40 | 660 78 | 27 36 12 |
| | | 21 | à limbo Solis proximo —— | 27 04 15 | 648 26 | 27 04 50 |
| | | 23 | —— rep. | 27 04 20 | 648 27 | 27 04 51 |

| Anno Christi MDCLXXXIV. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☉ Feb. 3 | 0 42 | *Venus* —— à limbo Solis proximo —— | 20 27 15 | 489 94 | 20 27 35 | *Venus in Pisc. 15°½ Mer. Dir.* |
| | 44 | —— rep. | 20 27 15 | 489 94 | 20 27 35 | |
| | 46 | à limbo Solis remoto —— | 21 00 10 | 502 96 | 21 00 18 | |
| | 47 | —— rep. | 21 00 00 | 502 94 | 21 00 15 | |
| | 5 47 | à lucida Arietis —— | 48 31 20 | 1162 00 | 48 31 30 | |
| | 49 | —— rep. | 48 30 50 | 1161 84 | 48 31 06 | |
| | | *Mercurius erat juxta Venerem; ejus vide observationem ab eadem Fixa sub Mercurio.* | | | | |
| ☽ 11 | 0 15 | *Venus* —— à limbo Solis proximo :: | 22 18 55 | 534 52 | 22 19 33 | *Venus in Pisc. 25°½ Mer. Dir.* |
| | 30 | —— rep. | 22 18 45 | 534 23 | 22 18 50 | |
| | 33 | —— iter. | 22 18 55 | 534 29 | 22 18 58 | |
| | 34 | à limbo Solis remotiore —— | 22 51 20 | 547 18 | 22 51 22 | |
| | 35 | —— rep. | 22 51 25 | 547 20 | 22 51 25 | |
| ♃ 28 | 0 22 | *Venus* —— à limbo Solis remoto —— | 26 46 20 | 641 08 | 26 46 46 | *Venus in Ariet. 16°½ Mer. Dir.* |
| | 26 | —— rep. | 26 46 15 | 641 05 | 26 46 42 | |
| | 27 | à limbo Solis proximo —— | 26 14 10 | 628 25 | 26 14 35 | |
| | 35 | —— rep. | 26 14 15 | 628 29 | 26 14 41 | |
| ♀ 29 | 0 09 | *Venus* —— à limbo Solis proximo —— | 26 27 50 | 633 73 | 26 28 21 | *Venus in Ariet. 17°½ Mer. Dir.* |
| | 11 | —— rep. | 26 27 50 | 633 73 | 26 28 21 | |
| | 13 | à limbo Solis remoto —— | 27 00 20 | 646 64 | 27 00 46 | |
| | 16 | —— rep. | 27 00 15 | 646 58 | 27 00 37 | |
| | 6 23 | à Palilicio —— | 47 38 05 | 1140 76 | 47 38 15 | |
| | 25 | —— rep. | 47 37 45 | 1140 62 | 47 37 54 | |
| | 7 18 | —— iterum. | 47 33 20 | 1138 78 | 47 33 18 | |
| | 20 | —— denuo | 47 33 00 | 1138 69 | 47 33 05 | |
| ♃ Mar. 6 *vel* ♀ 7 *mane.* | 22 45 | *Venus* —— à limbo Solis proximo —— | 28 03 00 | 671 50 | 28 03 05 | *Venus in Ariet. 26° Mer. Dir.* |
| | 48 | —— rep. | 28 03 00 | 671 49 | 28 03 03 | |
| | 50 | à limbo Solis remoto —— | 28 35 30 | 684 40 | 28 35 21 | |
| | 52 | —— iter. | 28 35 30 | 684 42 | 28 35 24 | |
| | | *Vide Mer. Alt. Solis & Veneris Obs.* | | | | |
| ♀ 7 | 6 19 | *Venus* —— à Palilicio —— | 39 12 20 | 938 94 | 39 12 25 | *Venus in Ariet. 26°½ Mer. Dir.* |
| | 22 | —— rep. | 39 12 10 | 938 89 | 39 12 18 | |
| | 24 | —— iterum. | 39 12 05 | 938 85 | 39 12 12 | |
| | 27 | —— denuo | 39 11 50 | 938 75 | 39 11 57 | |
| ♀ 21 | 7 28 | *Venus* —— à Palilicio —— | 22 39 15 | 542 45 | 22 39 30 | *Venus in Tauri. 13°½ Sep. Dir.* |
| | 31 | —— rep. | 22 39 00 | 542 35 | 22 39 13 | |
| | 33 | —— iterum | 22 38 50 | 542 26 | 22 39 00 | |
| ♄ 22 *vel* ☉ 23 *mane.* | 20 58 | *Venus* —— à limbo Solis proximo —— | 31 38 30 | 757 52 | 31 38 38 | *Venus in Tauri. 15½° Sept. Dir.* |
| | 21 01 | —— rep. | 31 38 30 | 757 48 | 31 38 31 | |
| | 02½ | à limbo Solis remoto —— | 32 11 15 | 770 35 | 32 10 46 | |
| | 04½ | —— rep. | 32 11 20 | 770 38 | 32 10 48 | |
| ☉ 23 *vel* ☽ 24 *mane.* | 22 46 | *Venus* —— à limbo Solis proximo —— | 31 53 30 | 763 39 | 31 53 20 | *Venus in Tauri 16½° Sept. Dir.* |
| | 50 | —— rep. | 31 53 30 | 763 37 | 31 53 17 | |
| | 52 | à limbo Solis remoto —— | 32 25 45 | 776 19 | 32 25 20 | |
| | 53½ | —— rep. | 32 25 45 | 776 21 | 32 25 23 | |
| | | *Post Meridiem ejusdem Diei.* | | | | |

| | Anno Christi MDCLXXXIV. Mense, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| | ☽ Mar. 24 | 7 01 | *Venus* —— à Calce Castoris —— | 43 49 20 | 1049 46 | 43 49 27 |
| | | 04 | —— rep. | 43 48 55 | 1049 30 | 43 49 03 |
| | | $5\frac{1}{2}$ | —— iterum | 43 48 55 | 1049 33 | 43 49 07 |
| *Venus in Gem. 12° Sept. Dir.* | ☽ Apr. 14 | 8 25 | *Venus* —— à Polluce —— | 36 55 50 | 884 46 | 36 56 07 |
| *Venus in Gem. 14°⅓ Sep. Dir.* | ☿ 16 | 8 17 | *Venus* —— à Polluce —— | 34 37 00 | 828 89 | 34 37 07 |
| | | 19 | —— rep. | 34 36 55 | 828 86 | 34 37 03 |
| *Venus in Gem. 15½ Sept. Dir.* | ♃ 17 | 1 27 | *Venus* —— à limbo Solis proximo — | 37 02 35 | 887 14 | 37 02 50 |
| | | 29 | —— rep. | 37 02 35 | 887 13 | 37 02 48 |
| | | 31 | à limbo Solis remoto —— | 37 34 45 | 899 95 | 37 34 51 |
| | | 33 | —— rep. | 37 34 45 | 899 95 | 37 34 51 |
| | | 8 16 | à Polluce —— | 33 27 35 | 801 11 | 33 27 39 |
| | | 17 | —— rep. | 33 27 15 | 801 00 | 33 27 22 |
| *Venus in Gem. 24° Sept. Dir.* | ♃ Apr. 24 *vel* ♀ 25 *mane.* | 23 06 | *Venus* —— à limbo Solis proximo — | 38 36 35 | 924 52 | 38 36::20 |
| | | 09 | —— rep. | 38 36 40 | 924 56 | 38 36::20 |
| | | | *Inter observandum, Maculam vidi sub disco Solis, limbum ejus sequentem ingressum & paululum ab eo distantem.* | | | |
| *Venus in Gem. 25°¼ Sept. Dir.* | ♀ 25 *vel* | 7 57 | *Venus* —— à Regulo —— | 60 30 10 | 1449 42 | 60 30 33 |
| | | 8 00 | —— rep. | 60 29 55 | 1449 33 | 60 30 20 |
| | ♄ 26 *mane.* | 23 31 | à limbo Solis proximo — | 38 48 10 | 929 24 | 38 48 09 |
| | | 34 | —— rep. | 38 48 30 | 929 36 | 38 48 24 |
| | | 38 | à limbo Solis remoto — | 39 20 50 | 942 20 | 39 20 36 |
| *Venus in Canc. 5°⅙ Sept. Dir.* | ♀ Maij 2 *vel* | 8 $25\frac{1}{2}$ | *Venus* —— à Regulo —— | 52 26 20 | 1255 84 | 52 26 37 |
| | | 29 | —— rep. | 52 26 20 | 1255 82 | 52 26 35 |
| | ♄ 3 *mane.* | 32 | —— iter. | 52 26 05 | 1255 74 | 52 26 22 |
| | | 23 04 | à limbo Solis proximo — | 40 05 45 | 960 08 | 40 05 27 |
| | | 12 | —— rep. | 40 05 50 | 960 10 | 40 05 30 |
| | | 15 | à limbo Solis remoto —— | 40 37 20 | 972 85 | 40 37 28 |
| | | 21 | —— rep. | 40 37 25 | 972 92 | 40 37 39 |
| *Venus in Canc. 5½° Sept. Dir.* | ☉ 4 | 8 38 | *Venus* —— ab ε Geminorum — 2562 = | 00 21 04 | ✱ · · · · ✱ ♀ | |
| | | 43 | —— rep. 2538 = | 00 20 52 | | |
| | | | *Subobscurè propter Nubeculas.* | | | |
| *Stella in Cancr. 5° 33'. Lat. Bor. 2° 11'.* | ☽ 5 | 9 04 | *Venus* —— ab eadem fixa — 6982 = | 00 57 25 | | |
| | | 15 | Diff. Declin. Veneris & Fixæ — 1741 = | 00 14 19 | | |
| | | 21 | melius rep. — 1773 = | 00 14 35 | | |
| | | | *Venus erat revera in consequentia Fixæ cum Declinatione majori Boreali.* | | | |
| *Venus in Canc. 24°¼ Sep. Dir.* | ☿ 21 | 9 00 | *Venus* —— à Regulo —— | 31 10 50 | 746 57 | 31 11 15 |
| | | 05 | —— rep. | 31 10 30 | 746 43 | 31 10 54 |
| | | 08 | —— iterum | 31 10 25 | 746 44 | 31 10 55 |
| *Venus in Leon. 12°¼ Sept. Dir.* | ♄ Junij 7 | 10 $7\frac{1}{2}$ | *Venus* —— à Jove —— | 32 35 00 | 780 10 | 32 35 06 |
| *Venus in Leonis 14° Sept. Dir.* | ☽ 9 | 9 20 | *Venus* —— à Regulo —— | 11 08 20 | 266 78 | 11 08 32 |
| | | 24 | —— rep. | 11 08 10 | 266 73 | 11 08 24 |

| ANNO CHRISTI MDCLXXXIV. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♂ Junij 10 | 0 55 | Venus | à limbo Solis proximo | 44 57 15 | 1076 54 | 44 57 13 | |
| | 57 | | rep. | 44 57 25 | 1076 57 | 44 57 18 | |
| | 58½ | | à limbo Solis remoto | 45 28 50 | 1089 24 | 45 29 05 | |
| | 1 00 | | rep. | 45 29 00 | 1089 22 | 45 29 02 | |
| | 9 23 | | à Regulo | 10 08 00 | 242 66 | 10 08 10 | |
| | 25 | | rep. | 10 07 55 | 242 61 | 10 08 03 | |
| ☽ 16 | 1 56 | Venus | à limbo Solis proximo | 45 09 50 | 1081 69 | 45 10 07 | *Venus in Leonis 21° ½. Sept. Dir.* |
| | 59 | | rep. | 45 09 50 | 1081 71 | 45 10 10 | |
| | 2 00 | | à limbo Solis remoto | 45 41 25 | 1094 32 | 45 41 50 | |
| | 02 | | rep. | 45 41 30 | 1094 31 | 45 41 48 | |
| ♂ 24 | 0 00 | Venus | à limbo Solis remoto | 45 34 55 | 1091 54 | 45 34 51 | *Venus in Leonis 28° ⅓ Sept. Dir.* |
| | 05 | | rep. | 45 34 50 | 1091 49 | 45 34 44 | |
| | 09 | | à limbo Solis proximo | 45 03 10 | 1078 82 | 45 02 57 | |
| | 13 | | rep. | 45 03 20 | 1078 90 | 45 03 09 | |
| | 9 11 | | à Spica Virginis | 50 41 10 | 1213 76 | 50 41 10 | |
| | 13 | | rep. | 50 40 50 | 1213 66 | 50 40 55 | |
| | 15 | | iter. | 50 40 40 | 1213 62 | 50 40 50 | |
| ♄ 28 | 1 54 | Venus | à limbo Solis remoto | 45 19 10 | 1085 44 | 45 19 33 | *Venus in Virg. 2° Sept. Dir.* |
| | 56 | | rep. | 45 19 00 | 1085 34 | 45 19 18 | |
| | 59 | | à limbo Solis proximo | 44 47 10 | 1072 70 | 44 47 38 | |
| | 2 01 | | rep. | 44 47 05 | 1072 69 | 44 47 36 | |
| | 8 05 | | à Spica Virginis | 47 09 35 | 1129 48 | 47 10 00 | |
| | 08 | | rep. | 47 09 30 | 1129 43 | 47 09 52 | |
| | 23 | | iter. | 47 09 10 | 1129 25 | 47 09 25 | |
| | 25 | | denuo | 47 09 05 | 1129 17 | 47 09 14 | |
| ♂ Julij 22 | 2 40 | Venus | à limbo Solis proximo :: | 38 48 35 | 929 44 | 38 48 39 | *Venus in Virg. 18° ⅓ Merid. Dir.* |
| | 43 | | rep. | 38 48 55 | 929 50 | 38 48 48 | |
| | 46 | | à limbo Solis remoto | 39 20 20 | 941 97 | 39 20 01 | |
| | 48 | | rep. | 39 20 45 | 942 15 | 39 20 28 | |
| | 50 | | iter. | 39 20 20 | 941 94 | 39 19 57 | |
| ♃ 24 | 2 34 | Venus | à limbo Solis remoto | 38 21 45 | 918 54 | 38 21 21 | *Venus in Virg. 19° ⅔. Merid. Dir.* |
| | 36 | | rep. | 38 21 40 | 918 52 | 38 21 18 | |
| | 39 | | à limbo Solis proximo | 37 49 50 | 905 80 | 37 49 30 | |
| | 40 | | rep. | 37 49 55 | 905 82 | 37 49 33 | |
| ♂ Aug. 5 | 2 48½ | Venus | à limbo Solis remoto | 30 05 00 | 720 20 | 30 05 01 | *Venus in Virg. 22° Mer. Stat.* |
| | 52 | | rep. | 30 05 05 | 720 25 | 30 05 09 | |
| | 54 | | à limbo Solis proximo | 29 33 20 | 707 45 | 29 33 05 | |
| | 57 | | rep. | 29 33 15 | 707 42 | 29 33 00 | |
| ♂ 19 | 1 21 | Venus | à limbo Solis proximo | 14 40 20 | 351 46 | 14 40 29 | *Venus in Virg. 18° ½ Mer. Ret.* |
| | 24 | | rep. | 14 40 20 | 351 45 | 14 40 27 | |
| | 26 | | à limbo Solis remoto | 15 12 00 | 364 04 | 15 11 55 | |
| | 28 | | rep. | 15 11 50 | 363 99 | 15 11 48 | |
| ☿ 20 | 1 53 | Venus | à limbo Solis proximo | 13 31 00 | 323 64 | 13 30 51 | *Venus in Virg. 18° Merid. Ret.* |
| | 58 | | rep. | 13 30 55 | 323 57 | 13 30 40 | |
| | 2 01 | | à limbo Solis remoto | 14 02 30 | 336 23 | 14 02 22 | |
| | 06 | | rep. | 14 02 30 | 336 22 | 14 02 21 | |

*Vide Dist. Merid.* ♀*is à vertice, eodem Die observatam, loco proprio;* ♀ *enim nunc habuit maxim. fere Latitud. Australem* 8° $\frac{1}{15}$ *juxta Ephemerides* Streetij.

| | ANNO CHRISTI MDCLXXXIV. Menſe, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Venus in Virg. 6° ¾ Merid. Ret.* | ☽ Sept. 15 *vel* | 17 27 | *Venus* ——— à Polluce ——— | 49 26 15 | 1183 75 | 49 26 00 |
| | | 29 | ——— rep. | 49 26 25 | 1183 82 | 49 26 10 |
| | ♂ 16 | 55 | ——— iter. | 49 26 40 | 1183 94 | 49 26 28 |
| | *mane.* | 58 | ——— denuò | 49 26 45 | 1183 98 | 49 26 35 |
| | ♀ 19 | 22 46 | *Venus* ——— à limbo Solis proximo — | 31 28 50 | 753 51 | 31 28 36 |
| | | 48 | ——— rep. | 31 28 45 | 753 53 | 31 28 39 |
| | | 50 | à limbo Solis remoto — | 32 00 45 | 766 25 | 32 00 28 |
| | | 52 | ——— rep. | 32 00 50 | 766 29 | 32 00 35 |
| *Venus in Virg. 6° ½ Merid. Dir.* | ☉ 21 | 16 56 | *Venus* ——— à Polluce ——— | 49 24 15 | 1182 87 | 49 23 48 |
| | | 18 00 | ——— rep. | 49 26 05 | 1183 72 | 49 25 55 |
| | | 01 | ——— iter. | 49 26 05 | 1183 72 | 49 25 55 |
| | | 23 38 | à limbo Solis proximo — | 33 08 05 | 793 15 | 33 07 45 |
| | | 40 | ——— rep. | 33 08 15 | 793 22 | 33 07 55 |
| | | 42 | à limbo Solis remoto — | 33 40 00 | 805 93 | 33 39 42 |
| | | 43 | ——— rep. | 33 40 00 | 805 93 | 33 39 42 |
| | | | *Vide eodem Die Solis & Veneris Merid. à Vertice Diſtantias, loco proprio.* | | | |
| | ☿ 25 | 22 35 | *Venus* ——— à limbo Solis remoto — | 36 28 55 | 873 42 | 36 28 30 |
| | | 37 | ——— rep. | 36 29 00 | 873 47 | 36 28 37 |
| | | 40 | à limbo Solis proximo — | 35 57 10 | 860 68 | 35 56 38 |
| | | 41 | ——— rep. | 35 57 20 | 860 71 | 35 56 42 |
| | | | *Vide Solis & Veneris à Vertice eodem Die Obſervationem, proprio loco.* | | | |
| *Venus in Virg. 7° ⅓ Merid. Dir.* | ♂ Oct. 14 | 17 27 | *Venus* ——— à Regulo ——— | 23 00 30 | 550 63 | 23 00 03 |
| | | | ——— rep. | 23 00 30 | 550 61 | 23 00 00 |
| | ♀ 17 | 0 49 | *Venus* ——— à limbo Solis remoto — | 45 04 10 | 1079 36 | 45 04 18 |
| | | 53 | ——— rep. | 45 04 20 | 1079 45 | 45 04 32 |
| | | 56 | à limbo Solis proximo — | 44 32 15 | 1066 66 | 44 32 30 |
| | | 58 | ——— rep. | 44 32 10 | 1066 65 | 44 32 29 |
| *Venus in Virg. 7° ¾ Merid. Dir.* | ☉ 26 | 18 41 | *Venus* ——— à Regulo ——— | 33 05 55 | 792 24 | 33 05 28 |
| | | 43 | ——— rep. | 33 05 50 | 792 23 | 33 05 27 |
| *Venus in Libra 8° Sept. Dir. in max. Elong. à Sole.* | ♀ Nov. 5 | 23 24 | *Venus* ——— à limbo Solis remoto — | 46 59 25 | 1125 07 | 46 58 57 |
| | | 28 | ——— rep. | 46 59 20 | 1125 03 | 46 58 51 |
| | | 35 | à limbo Solis proximo — | 46 26 40 | 1112 12 | 46 26 28 |
| *Venus in Libra 9° Sept. Dir.* | ♀ 7 | 0 01 | *Venus* ——— à limbo Solis proximo — | 46 27 20 | 1112 40 | 46 27 10 |
| | | 07 | ——— rep. | 46 27 10 | 1112 34 | 46 27 02 |
| | | 14 | à limbo Solis remoto — | 46 59 55 | 1125 36 | 46 59 40 |
| | | 17 | ——— rep. | 47 00 10 | 1125 49 | 47 00 01 |
| | | | *Solus habui cum Famulo.* | | | |
| | MDCLXXXV. | | | | | |
| *Venus in Aquar. 23 ½ Sept. Dir.* | ♄ Feb. 28 | 21 09 | *Venus* ——— à limbo Solis remoto — | 28 27 00 | 681 04 | 28 26 57 |
| | | 17 | ——— rep. | 28 26 50 | 680 92 | 28 26 39 |
| | | 19 | à limbo Solis proximo — | 27 54 20 | 668 10 | 27 54 33 |
| | | 22 | ——— rep. | 27 54 10 | 668 02 | 27 54 21 |
| *Venus in Piſc. 21° ½ Merid. Dir.* | ☽ Mar. 23 | 21 03 | *Venus* ——— à limbo Solis remoto — | 22 59 40 | 550 40 | 22 59 27 |
| | | c6 | ——— rep. | 22 59 40 | 550 42 | 22 59 30 |
| | | c8 | à limbo Solis proximo — | 22 27 15 | 537 63 | 22 27 21 |
| | | 11 | ——— rep. | 22 27 20 | 537 68 | 22 27 30 |

| ANNO CHRISTI MDCLXXXV. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☽ Aug. 31 | 1 30½ | *Venus* — à limbo Solis remoto — | | | | *Venus in Libra 8°½ Mer. Dir.* |
| | 33 | — rep. | | | | |
| | 35 | à limbo Solis proximo — | | | | |
| | 38 | — rep. | | | | |
| ☽ Sept. 21 | 2 29 | *Venus* — à limbo Solis remoto — | | | | *Venus in Scorp. 4°½ Sept. Dir.* |
| | 30½ | — rep. | | | | |
| | 34 | à limbo Solis proximo — | | | | |
| | 36 | — rep. | | | | |
| ♃ Oct. 22 | 0 47¼ | *Venus* — à limbo Solis proximo — | 32 21 30 | 774 48 | 32 21 03 | *Venus in Sagit. 12°½ Mer. Dir.* |
| | 50 | — rep. | 32 21 40 | 774 54 | 32 21 12 | |
| | 52 | à limbo Solis remoto — | 32 54 05 | 787 50 | 32 53 38 | |
| | 56 | — rep. | 32 54 10 | 787 50 | 32 53 38 | |
| ♃ Dec. 10 | 0 09 | *Venus* — à limbo Solis proximo — | 41 56 50 | 1004 29 | 41 56 18 | *Venus in Aqua. 12° Mer. Dir.* |
| | 15 | — rep. | 41 56 50 | 1004 29 | 41 56 18 | |
| | 16 | à limbo Solis remoto — | 42 29 35 | 1017 41 | 42 29 09 | |
| | 18 | — rep. | 42 29 25 | 1017 34 | 42 28 59 | |
| ☿ 16 | 1 28 | *Venus* — à limbo Solis proximo — | 42 53 30 | 1026 92 | 42 52 59 | *Venus in Aqua. 19° Mer. Dir.* |
| | 30 | — rep. | 42 53 25 | 1026 90 | 42 52 55 | |
| | 31½ | à limbo Solis remoto — | 43 26 20 | 1039 92 | 43 25 33 | |
| | 34½ | — rep. | 43 26 30 | 1039 99 | 43 25 44 | |
| MDCLXXXVI. | | | | | | |
| ♂ Jan. 12 | 5 24 | *Venus* — à lucida Arietis — | 44 39 30 | 1069 57 | 44 39 48 | *Venus in Pisc. 20° Mer. Dir.* |
| | 26 | — rep. | 44 39 30 | 1069 57 | 44 39 48 | |
| ♂ 26 | 0 16 | *Venus* — à limbo Solis proximo — | 46 29 55 | 1113 37 | 46 29 36 | *Venus in Ariet. 4° ♂ Lat. Bor. 1. 07. in max. Elong. à Sole.* |
| | 19 | — rep. | 46 29 40 | 1113 27 | 46 29 21 | |
| | 21 | à limbo Solis remoto — | 47 02 25 | 1126 36 | 47 02 12 | |
| | 25 | — rep. | 47 02 20 | | | |
| | 27 | à limbo proximo — iter. | 46 29 45 | 1113 31 | 46 29 27 | |
| ♀ 29 *vel* ♄ 30 *mane.* | 23 26 | *Venus* — à limbo Solis proximo — | 46 25 30 | 1111 58 | 46 25 07 | *Venus in Ariet. 8° Sept. Dir.* |
| | 29 | — rep. | 46 25 30 | 1111 57 | 46 25 06 | |
| | 32 | à limbo Solis remoto — | 46 58 15 | 1124 58 | 46 57 44 | |
| | 35 | — rep. | 46 58 00 | 1124 49 | 46 57 30 | |
| | 38 | — iter. | 46 58 10 | 1124 53 | 46 57 36 | |
| ♄ 30 | 5 54 | *Venus* — à Palilicio — | 57 35 10 | 1379 40 | 57 35 33 | |
| | 56 | — rep. | 57 35 10 | 1379 35 | 57 35 25 | |
| | 6 11 | — iter. | 57 34 25 | 1379 03 | 57 34 38 | |
| | 16 | — denuo. | 57 34 10 | 1378 92 | 57 34 21 | |
| ☿ Feb. 10 *vel* ♃ 11 *mane.* | 23 04 | *Venus* — à limbo Solis proximo — | 45 21 45 | 1086 35 | 45 21 50 | *Venus in Ariet. 19° Sept. Dir.* |
| | 07 | — rep. | 45 21 40 | 1086 29 | 45 21 40 | |
| | 09 | — iter. | 45 21 30 | 1086 23 | 45 21 32 | |
| | 11½ | à limbo Solis remoto — | 45 54 25 | 1099 27 | 45 54 13 | |
| | 14 | — rep. | 45 54 30 | 1099 30 | 45 54 18 | |
| ♃ 11 | 6 01 | *Venus* — à Palilicio — | 47 00 25 | 1125 68 | 47 00 30 | |
| | 04 | — rep. | 47 00 10 | 1125 54 | 47 00 09 | |
| | 07 | — iter. | 47 00 05 | 1125 52 | 47 00 06 | |
| | 16 | à Capite Andromedæ — | 24 18 20 | 581 86 | 24 18 16 | |
| | 24 | — rep. | 24 18 20 | 581 83 | 24 18 12 | |

| | Anno Christi MDCLXXXVI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Venus in Tauri 2° Sept. Dir.* | ☉ Feb. 28 | 22 25 | *Venus* ——— à limbo Solis proximo —— | 40 14 00 | 963 25 | 40 13 24 |
| | | 27½ | ——— rep. | 40 13 55 | 963 24 | 40 13 22 |
| | | 30 | à limbo Solis remoto —— | 40 45 25 | 976 06 | 40 45 32 |
| | | 31½ | ——— rep. | 40 45 15 | 976 03 | 40 45 27 |
| | | 34 | à limbo Solis proximo iter. | 40 13 45 | 963 16 | 40 13 10 |
| | | | *Vide Solis & Veneris Altitud. Merid. eodem Die.* | | | |
| *Venus in Tauri 2° Sept. Dir.* | ☽ Mar. 1 | 6 50 | *Venus* ——— à Palilicio ——— | 35 22 35 | 847 08 | 35 22 36 |
| | | 53 | ——— rep. | 35 22 40 | 847 10 | 35 22 39 |
| | | 7 00 | à ſecunda Arietis ——— | 03 44 30 | 89 61 | 03 44 37 |
| | | 02 | ——— rep. | 03 44 45 | 89 70 | 03 44 54 |
| | | 05 | ——— iter. | 03 44 40 | 89 67 | 03 44 46 |
| | | 09 | à Marte ——— | 05 19 50 | 127 32 | 05 19 15 |
| | | 22 17 | à limbo Solis proximo —— | 39 45 00 | 951 95 | 39 45 05 |
| | | 20 | ——— rep. | 39 44 55 | 951 91 | 39 44 58 |
| | | 22 | à limbo Solis remoto —— | 40 18 00 | 964 83 | 40 17 22 |
| | | 25 | ——— rep. | 40 17 55 | 964 80 | 40 17 27 |
| | | 28 | à limbo proximo iter. —— | 39 44 55 | 951 92 | 39 45 00 |
| | | | *Vide Solis & Veneris Altitud. Merid. eodem Die.* | | | |
| *Venus in Tauri 2°½ Sept. Dir.* | ♂ 2 | 6 25 | *Venus* ——— à Palilicio ——— | 34 56 40 | 836 76 | 34 56 48 |
| | | 28 | ——— rep. | 34 56 40 | 836 75 | 34 56 46 |
| | | 31 | ——— iter. | 34 56 40 | 836 75 | 34 56 48 |
| *Venus in Tauri 5°½ Sept. Dir.* | ☿ 10 vel ♃ 11 mane. | 22 10 | *Venus* ——— à limbò Solis remoto —— | 34 49 50 | 833 82 | 34 49 28 |
| | | 12 | ——— rep. | 34 49 50 | 833 82 | 34 49 28 |
| | | 15 | à limbo Solis proximo — | 34 17 35 | 820 92 | 34 17 12 |
| | | 17 | ——— rep. | 34 17 35 | 820 91 | 34 17 10 |
| | | 19½ | ——— iter. | 34 17 25 | 820 83 | 34 16 58 |
| | | 24 | à limbo Solis remoto iter. | 34 49 20 | 833 62 | 34 48 57 |
| | | 27½ | ——— rep. | 34 49 10 | 833 57 | 34 48 50 |
| | | 29½ | à limbo Solis proximo iter. | 34 17 10 | 820 72 | 34 16 42 |
| | | 36 | ——— rep. | 34 16 50 | 820 61 | 34 16 25 |
| | | | *Venus erat in Limite Boreo, vide ejus & Solis Merid. Diſt.* | | | |
| | ♃ 11 | 6 57 | *Venus* ——— à Palilicio ——— | 32 20 50 | 774 38 | 32 20 48 |
| | | 59½ | ——— rep. | 32 21 00 | 774 43 | 32 20 55 |
| | | 7 03 | ——— iterùm | 32 20 50 | 774 39 | 32 20 50 |
| | | | *Sed hæ Diſtantiæ ſemiminuto ſaltem juſto arctiores ſunt, propter vitium diſpunctiationis in hoc loco Limbi.* | | | |
| | ♀ 12 *mane* | 21 52 | *Venus* ——— à limbo Solis remoto ——— | 34 04 15 | 815 81 | 34 04 25 |
| | | 55½ | ——— rep. | 34 04 25 | 815 88 | 34 04 36 |
| | | 59 | à limbo Solis proximo — | 33 32 20 | 802 93 | 33 32 12 |
| | | 22 01 | ——— rep. | 33 32 15 | 802 91 | 33 32 09 |
| | | 05 | à limbo Solis remoto iter. | 34 04 00 | 815 61 | 34 03 55 |
| | | 09 | ——— rep. | 34 03 55 | 815 62 | 34 03 57 |
| *Venus in Ariet. 27° Mer. Dir.* | ☿ Maij 19 | 21 32 | *Venus* ——— à limbo Solis proximo — | 41 46 25 | 1000 39 | 41 46 32 |
| | | 35 | ——— rep. | 41 46 35 | 1000 41 | 41 46 35 |
| | | 37½ | à limbo Solis remoto —— | 42 18 15 | 1012 95 | 42 18 00 |
| | | 39¾ | ——— rep. | 42 18 15 | 1013 00 | 42 18 06 |

| Anno Christi MDCLXXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes.* Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Junij 9 | 21 14¼ | *Venus* —— à limbo Solis remoto —— | 45 51 55 | 1098 26 | 45 51 42 | |
| *vel* | 17 | —— rep. | 45 52 05 | 1098 35 | 45 51 55 | *Venus in Tauri 13° Mer. Dir.* |
| ♃ 10 | 20⅓ | à limbo Solis proximo —— | 45 20 30 | 1085 84 | 45 20 33 | |
| *mane.* | 22⅓ | —— rep. | 45 20 35 | 1085 94 | 45 20 48 | |
| ☉ 13 | 21 28¼ | *Venus* —— à limbo Solis remoto —— | 45 59 40 | 1101 27 | 45 59 15 | |
| *vel* | 32 | —— rep. | 45 59 30 | 1101 23 | 45 59 09 | *Venus in Tauri 17° Mer. Dir.* |
| ☽ 14 | 36 | à limbo Solis proximo —— | 45 27 50 | 1088 68 | 45 27 40 | |
| *mane.* | 38 | —— rep. | 45 27 55 | 1088 72 | 45 27 46 | |
| ☽ Aug. 23 | 16 16 | *Venus* —— à Calce Castoris —— | 33 38 05 | 805 06 | 33 37 31 | |
| *vel* | 18 | —— rep. | 33 38 30 | 805 24 | 33 37 59 | |
| ♂ 24 | 21 | —— iterùm | 33 38 40 | 805 28 | 33 38 05 | |
| *mane.* | | *Fixa juxta Ven.* à Calce Castoris —— | 33 25 40 | 800 08 | 33 25 05 | |
| | | *Fixa erat Asellus Austrinus.* | | | | |
| | 27⅓ | *Venus* —— à Calce Castoris —— | 33 39 08 | 805 40 | 33 38 22 | *Venus in Leonis 4½° Mer. Dir.* |
| | 36 | ab Asello Aust. *Tubo Ped.* 8 —} 2535 = | 00 20 51 | | | |
| | 39½ | —— rep. 2546 = | 00 20 54 | | | |
| | 44¼ | Differen. Declinat. Fixæ & Veneris, Fixâ Borealiore } 2217 = | 00 18 13 | | | |
| | 48⅓ | *Venus* —— à Calce Castoris —— rep. | 33 40 10 | 805 92 | 33 39 40 | |
| | 51 | —— iterùm | 33 40 25 | 806 00 | 33 39 53 | |
| | 53½ | —— denuo | 33 40 40 | 806 07 | 33 40 03 | |
| | 21 46 | à limbo Solis proximo —— | 36 03 05 | 863 05 | 36 02 35 | |
| | 49 | —— rep. | 36 03 05 | 863 06 | 36 02 36 | |
| | 51 | à limbo Solis remoto —— | 36 34 30 | 875 77 | 36 34 22 | |
| | 53 | —— iter. | 36 34 30 | 875 79 | 36 34 25 | |
| ♂ 24 *p. m.* | 0 06½ | *Venus* —— à limbo Solis remoto —— | 36 33 25 | 875 50 | 36 33 42 | |
| | 10½ | —— rep. | 36 33 25 | 875 44 | 36 33 33 | |
| | 13 | à limbo Solis proximo —— | 36 01 40 | 862 71 | 36 01 44 | |
| | 15 | —— rep. | 36 01 40 | 862 71 | 36 01 44 | |
| ♂ Sept. 7 | 17 14 | *Venus* —— à Calce Castoris —— | 52 47 40 | 1264 14 | 52 47 24 | *Venus in Leonis 22°½ Sept. Dir.* |
| *vel* | 20 | —— rep. | 52 48 05 | 1264 25 | 52 47 40 | |
| ☿ 8 | 35⅓ | —— iter. | 52 49 10 | 1264 69 | 52 48 46 | |
| *mane* | | | | | | |
| ♃ 9 | 16 21¼ | *Venus* —— à Reg. (*Tub.* 8 *Ped.*) 4721 = | 00 38 49 | | | |
| *vel* | 26⅓ | —— rep. 4660 = | 00 38 19 | | | |
| ♀ 10 | 33⅓ | Differ. Declin. Venere Borealiore 3071 = | 00 25 15 | | | *Venus in Leonis 25° Sept. Dir.* |
| *mane.* | 45 | —— rep. 3064 = | 00 25 11 | | | |
| | 49 | *Venus* —— à Regulo —— rep. 4548 = | 00 37 23 | | | |
| ☉ 12 | 17 20 | *Venus* —— à Regulo —— | 03 05 20 | 73 78 | 03 04 54 | *Venus in Leonis 26° Sept. Dir.* |
| *vel* | 22 | —— rep. | 03 05 40 | 73 91 | 03 05 13 | |
| ☽ 13 | 25⅓ | —— iter. | 03 05 50 | 73 97 | 03 05 22 | |
| *mane.* | 46⅓ | —— denuo. | 03 06 50 | 74 44 | 03 06 33 | |
| | 48 | —— postr. | 03 07 00 | 74 50 | 03 06 42 | |
| | 21 20⅔ | à limbo Solis remoto —— | 32 12 10 | 770 60 | 32 11 21 | |
| | 22½ | —— iterùm | 32 12 05 | 770 57 | 32 11 16 | |
| | 24½ | à limbo Solis proximo —— | 31 39 35 | 757 87 | 31 39 30 | |
| | 27 | —— iter. | 31 39 40 | 757 89 | 31 39 33 | |

| | Anno Christi MDCLXXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | *VENERIS* DISTANTIÆ à Sole & Fixis. | *Distantiæ per lineas diagonales.* ° ' " | *Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes.* Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| | ☽ Sept. 13 | 0 08 | *Venus* —— à limbo Solis proximo —— | 31 38 20 | 757 36 | 31 38 13 |
| | | 10½ | —— rep. | 31 38 15 | 757 38 | 31 38 16 |
| | | 13 | à limbo Solis remoto —— | 32 10 30 | 770 12 | 32 10 09 |
| | | 15 | —— rep. | 32 10 30 | 770 13 | 32 10 10 |
| | | | *Venere in eadem altitudine cum Sole. His fidendum; accuratissimæ enim sunt Mensuræ, & diligenter acceptæ. Vide Solis & Veneris Meridianas à Vertice Distantias locis propriis.* | | | |
| *Venus in Virg. 1° Sept. Dir.* | ☿ 14 *vel* | 17 20 | *Venus* —— à Regulo —— | 05 30 50 | 131 72 | 05 30 17 |
| | ♀ 15 *mane.* | 22 | —— rep. | 05 31 00 | 131 78 | 05 30 26 |
| *Venus in Virg. 3° Sept. Dir.* | ♃ 16 *vel* | 17 39 | *Venus* —— á Regulo —— | 07 57 40 | 190 32 | 07 57 07 |
| | ♀ 17 *mane.* | 45 | —— rep. | 07 57 50 | 190 42 | 07 57 22 |
| | | 48 | —— iterùm | 07 58 10 | 190 55 | 07 57 49 |
| *Venus in Virg. 28° Sept. Dir.* | ♀ Octob. 6 | 18 22 | *Venus* —— à Regulo —— | 32 29 25 | 777 52 | 32 28 39 |
| | | 25½ | —— rep. | 32 29 25 | 777 52 | 32 28 39 |
| | ♃ 7 | 22 39 | à limbo Solis remoto —— | 26 20 15 | 630 43 | 26 20 03 |
| | | 42 | —— rep. | 26 20 10 | 630 39 | 26 19 57 |
| | | 43 | à limbo Solis proximo — | 25 47 45 | 617 50 | 25 47 37 |
| *Venus in Virg. 29° Sept. Dir.* | | 45 | —— rep. | 25 47 50 | 617 55 | 25 47 45 |
| | MDCLXXXVII. | | | | | |
| | ♃ Maij 5 | 3 04 | *Venus* —— à limbo Solis remoto —— | 25 25 25 | 608 85 | 25 25 55 |
| *Venus in Gem. 30° Sept. Dir.* | | 07 | —— rep. | 25 25 20 | 608 82 | 25 25 50 |
| | | 12 | à limbo Solis proximo —— | 24 53 35 | 596 04 | 24 53 48 |
| | ♃ Junij 16 | 22 32 | *Venus* —— à limbo Solis proximo —— | 35 14 05 | 843 40 | 35 13 24 |
| | | 34 | —— rep. | 35 14 00 | 843 37 | 35 13 19 |
| *Venus in Leon. 11° Sept. Dir.* | | 36 | a limbo Solis remoto —— | 35 45 20 | 855 95 | 35 44 48 |
| | | 38 | —— rep. | 35 45 30 | 856 05 | 35 45 03 |
| | ♄ 18 | 2 12 | *Venus* —— à limbo Solis proximo —— | 35 29 30 | 849 88 | 35 29 38 |
| *Venus in Leon. 13° Sept. Dir.* | | 15 | —— rep. | 35 29 20 | 849 82 | 35 29 29 |
| | | 17 | à limbo Solis remoto —— | 36 01 20 | 862 52 | 36 01 15 |
| | | 19 | —— rep. | 36 01 15 | 862 52 | 36 01 15 |
| | | 21 | à limbo Solis prox. — iter. | 35 29 30 | 849 92 | 35 29 44 |
| | | 25 | —— rep. | 35 29 30 | 849 90 | 35 29 41 |
| | ♀ Aug. 12 | 03 40 | *Venus* —— à limbo Solis proximo — | 45 05 35 | 1079 76 | 45 05 18 |
| | | 44 | —— rep. | 45 05 40 | 1079 82 | 45 05 27 |
| *Venus in Libra 15° Mer. Dir.* | | 45 | à limbo Solis remoto —— | 45 37 15 | 1092 44 | 45 37 06 |
| | | 47 | —— rep. | 45 37 20 | 1092 38 | 45 36 57 |
| | | 49 | à limbo Solis prox. — iter. | 45 05 35 | 1079 83 | 45 05 28 |
| | | 55 | à limbo Solis rem. — denuo | 45 37 10 | 1092 54 | 45 37 21 |
| | ♃ 25 | 3 27 | *Venus* —— à limbo Solis proximo — | 46 00 50 | 1101 81 | 46 00 37 |
| | | 29 | —— rep. | 46 00 55 | 1101 86 | 46 00 45 |
| *Venus in Libra 28° Mer Dir.* | | 30 | à limbo Solis remoto —— | 46 33 00 | 1114 57 | 46 32 37 |
| | | 32 | —— rep. | 46 32 10 | 1114 58 | 46 32 39 |

| Anno Christi MDCLXXXVIII. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Jan. 26 | 22 15 | *Venus* —— à limbo Solis remoto —— | 47 00 10 | 1125 39 | 46 59 45 | *Venus in Capr. 1° Sept. Dir.* |
| *vel* | 18 | —— rep. | 47 00 05 | 1125 36 | 46 59 41 | |
| ♀ 27 | 21 | à limbo Solis proximo —— | 46 27 40 | 1112 42 | 46 27 13 | |
| *mane.* | 24 | —— rep. | 46 27 30 | 1112 37 | 46 27 06 | |
| ♀ 27 | 18 17 | *Venus* —— ab Antare —— | 27 33 15 | 659 56 | 27 33 09 | *Venus in Capr. 2° Sept. Dir.* |
| *vel* ♄ 28 | 21 | Per D. *Adair, Scotum,* —— rep. | 27 33 20 | 659 60 | 27 33 15 | |
| *mane.* | | | | | | |
| ☉ 29 | 21 56 | *Venus* —— à limbo Solis remoto —— | 46 50 40 | 1121 63 | 46 50 19 | *Venus in Capr. 4° Sept. Dir.* |
| *vel* | 58 | —— rep. | 46 50 35 | 1121 58 | 46 50 12 | |
| ☽ 30 | 22 00 | à limbo Solis proximo —— | 46 18 10 | 1108 60 | 46 17 39 | |
| *mane.* | 02 | —— rep. | 46 18 05 | 1108 59 | 46 17 37 | |
| | 05 | Per *Staffordium* —— iterùm. | 46 18 05 | 1108 61 | 46 17 40 | |
| ☽ Feb. 13 | 17 52 | *Venus* —— ab Antare —— | 45 26 20 | 1088 11 | 45 26 15 | *Venus in Capr. 19° Sept. Dir.* |
| *vel* | 54 | —— rep. | 45 26 30 | 1088 14 | 45 26 19 | |
| ♂ 14 | 18 30 | —— iter. | 45 28 25 | 1088 90 | 45 28 13 | |
| *mane.* | 33 | —— denuo | 45 28 20 | 1088 91 | 45 28 15 | |
| | 20 56 | à limbo Solis proximo —— | 44 55 50 | 1076 01 | 44 55 54 | |
| | 59 | —— rep. | 44 55 40 | 1075 95 | 44 55 45 | |
| | 21 01 | à limbo Solis remoto —— | 45 28 00 | 1088 77 | 45 27 54 | |
| | 04 | —— rep. | 45 28 00 | 1088 77 | 45 27 54 | |
| ☽ Nov. 26 | 1 30 | *Venus* —— à limbo Solis proximo —— | 23 14 25 | 556 30 | 23 14 15 | *Venus in Sagit. 23° Mer. Dir.* |
| | 32 | —— rep. | 23 14 20 | 556 25 | 23 14 07 | |
| | 33 | à limbo Solis remoto —— | 23 46 30 | 569 20 | 23 46 33 | |
| | 35 | —— rep. | 23 46 40 | 569 30 | 23 46 48 | |
| MDCLXXXIX. | | | | | | |
| ♂ Jan. 15 | 5 37 | *Venus* —— à lucida Arietis —— | 53 15 25 | 1275 24 | 53 15::10 | |
| | 38 | —— rep. | 53 15 05 | 1275 14 | 53 14::55 | *Venus in Pisc. 11° Mer. Dir.* |
| ☉ Feb. 17 | 22 27½ | *Venus* —— à limbo Solis remoto —— | 41 01 30 | 982 27 | 41 01 06 | *Venus in Ariet. 21° Sept. Dir.* |
| *vel.* | 30 | —— rep. | 41 01 20 | 982 24 | 41 01 02 | |
| ☽ 18 | 36½ | à limbo Solis proximo —— | 40 29 10 | 969 36 | 40 28 44 | |
| *mane.* | 38 | —— rep. | 40 29 10 | 969 37 | 40 28 45 | |
| ☽ 18 | 6 44 | *Venus* —— à Palilicio —— | 44 01 50 | 1054 39 | 44 01 48 | |
| *vel* | 46 | —— rep. | 44 01 50 | 1054 36 | 44 01 42 | *Venus in Ariet. 21° Sept. Dir.* |
| ♂ 19 | 22 57 | à limbo Solis proximo —— | 40 38 50 | 973 43 | 40 38 55 | |
| *mane.* | 23 03 | —— rep. | 40 38 50 | 973 42 | 40 38 54 | |
| | 06 | à limbo Solis remoto —— | 41 11 20 | 986 42 | 41 11 30 | |
| | 08 | —— rep. | 41 11 30 | 986 48 | 41 11 39 | |
| ♂ 19 | 6 12 | *Venus* —— à Palilicio —— | 42 55 50 | 1028 04 | 42 55 46 | |
| | 13 | —— rep. | 42 55 30 | 1027 98 | 42 55 37 | |
| ☉ Mar. 24 | 23 30 | *Venus* —— à limbo Solis remoto —— | 45 28 45 | 1089 07 | 45 28 39 | *Venus in Gem. 0° Sept. Dir.* |
| *vel.* | 35 | —— rep. | 45 28 45 | 1089 04 | 45 28 34 | |
| ☽ 25 | 36 | à limbo Solis proximo —— | 44 56 40 | 1076 32 | 44 56 40 | |
| *mane.* | 40 | —— rep. | 44 56 30 | 1076 22 | 44 56 25 | |
| ☽ 25 | 7 13 | *Venus* —— à Polluce —— | 48 05 05 | 1151 47 | 48 05 05 | *Venus in Gem. 1° Sept. Dir.* |
| *vel* | 15 | —— rep. | 48 04 45 | 1151 34 | 48 04 45 | |
| ♂ 26 | 23 28 | à limbo Solis proximo —— | 45 00 40 | 1077 81 | 45 00 25 | |
| *mane.* | 30 | —— rep. | 45 00 35 | 1077 67 | 45 00 05 | |

| | ANNO CHRISTI MDCLXXXIX. Mense, Die. Styl. Vet. | Temp. App. H. M. | VENERIS DISTANTIÆ à Sole & Fixis. | Distantia per lineas diagonales. | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | |
|---|---|---|---|---|---|---|
| | ☽ Mar 25 | 23 33 | *Venus* —— à limbo Solis remoto — | 45 32 45 | 1090 65 | 45 32 37 |
| | *vel* ♂ 26 | 35 | —— rep. | 45 32 45 | 1090 64 | 45 32 36 |
| | *mane.* | 38 | —— iter. | 45 32 35 | 1090 60 | 45 32 30 |
| *Venus in Gem. 16° Sept. Dir.* | ☿ Apr. 10 | 0 55½ | *Venus* —— à limbo Solis remoto — | 45 52 40 | 1098 60 | 45 52 33 |
| | | 58 | —— rep. | 45 52 35 | 1098 56 | 45 52 27 |
| | | 1 01 | à limbo Solis proximo — | 45 20 50 | 1085 94 | 45 20 48 |
| | | 03 | —— rep. | 45 20 50 | 1085 92 | 45 20 45 |
| *Venus in Gem. 18° Sept. Dir.* | ♃ 11 | 22 19 | *Venus* —— à limbo Solis remoto — | 45 48 00 | 1096 70 | 45 47 48 |
| | *vel* | 20 | —— rep. | 45 48 00 | 1096 75 | 45 47 55 |
| | ♀ 12 | 22 | à limbo Solis proximo — | 45 16 00 | 1083 94 | 45 15 46 |
| | *mane.* | 24½ | —— rep. | 45 16 05 | 1084 04 | 45 16 03 |
| *Venus in Canc. 3° Sept. Dir.* | ☽ 29 | 23 10 | *Venus* —— à limbo Solis proximo — | 42 42 45 | 1022 68 | 42 42 21 |
| | *vel* ♂ 30 | 12 | —— rep. | 42 42 35 | 1022 59 | 42 42 07 |
| | *mane.* | | | | | |
| *Venus in Leonis 5° ½ Mer. Dir.* | ♂ Sept. 3 | 1 17 | *Venus* —— à limbo Solis remoto — | 46 01 05 | 1102 00 | 46 01 06 |
| | | 19 | —— rep. | 46 01 05 | 1102 02 | 46 01 09 |
| | | 21 | à limbo Solis proximo — | 45 29 05 | 1089 34 | 45 29 20 |
| | | 26 | —— rep. | 45 29 05 | 1089 36 | 45 29 23 |

| ANNO CHRISTI MDCLXXVI. Mense, Die. Styl. Vet. | Temp. App. H. M. | MERCURII DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| ☿ Nov. 24 | 18 42 | *Mercurius* — à Spica Virginis | | 847 79 | 35 24 22 | |
| *vel* | 47 | rep. | | 848 03 | 35 25 01 | |
| ♄ 25 | 19 01 | ab Arcturo | | 1034 69 | 43 12 27 | |
| *mane.* | 05⅓ | à Spica Virginis | | 848 84 | 35 27 03 | |
| | 10⅓ | rep. | | 848 95 | 35 27 19 | |
| | 17 | ab Arcturo | | 1035 17 | 43 13 39 | *Mercurius in Sagit. 6° Dir.* |
| | 26 | à Spica Virginis | | 849 36 | 35 28 21 | |
| | 35 1/7 | rep. | | 849 53 | 35 28 46 | |
| | 44½ | iter. | | 849 68 | 35 29 10 | |
| | 53 | iter. | | 849 78 | 35 29 25 | |
| | 20 06⅔ | denuo | | 849 81 | 35 29 30 | |
| | | *Sol oriri cœpit 8ʰ 01', deinde obtuso adeo lumine Mercurius emicuit, ut dignoscere vix potui, quando filum erat transiturus.* | | | | |
| ☉ Dec. 3 | 19 05 | *Mercurius* — à Spica Virginis | | 1027 36 | 42 54 07 | |
| *vel* | 9½ | rep. | | 1027 60 | 42 54 43 | |
| ☽ 4 | 19½ | iter. | | 1028 00 | 42 55 43 | |
| *mane.* | | *Tunc Nubes usque.* | | | | |
| | 41 | à Spica Virginis | | 1028 78 | 42 57 40 | *Mercurius in Sagittarii 10° ½ Mer. juxta Stationem.* |
| | 43 | rep. | | 1028 78 | 42 57 40 | |
| | 51½ | iter. | | 1028 98 | 42 58 10 | |
| | 55 | iter. | | 1029 16 | 42 58 37 | |
| | 20 08½ | denuo | | 1029 52 | 42 59 31 | |
| | | *Sol oriebatur 8ʰ 05'½, ex quo adeo debilis Mercurii lux, ut quando filum transiret, cernere diutius non potuimus.* | | | | |

**MDCLXXVII.**

☉ Oct. 28

*Accidit hoc Anno, Octobris 28, transitus Mercurii sub Sole: hunc* Grenovici *Observitare non potui, Cœlum enim toto eo die Nubibus densissimis subductum erat.* Townleii *autem in Comitatu* Lancastriæ, *Amicus meus colendissimus Dom.* R. Townleius *totalem Mercurii è Sole egressum advertertit, 2ʰ. 54' 00" p. m.*

*Mercurii sub Sole Observat. Townleii.*

*In Insula* Helenæ, *ubi tunc Fixarum Australium Observandi causa commorobatur,* D. Halleius *observavit quod 9ʰ. 26' 17" mane, limbus Solis à Mercurio temeratus, 9ʰ. 27' 30" totus Mercurius intra Solem efficiens angulum contactus,*

*Halleii in Insulâ sanctâ Helena.*

2ʰ. 38'. 39". *Distantia limbi proximi Mercurii à limbo Solis non excedebat Mercurii Diametrum.*

2. 40. 08 *limbus ☿ⁱˢ attigit limbum Solis.*
2. 41. 00 *Centralis Mercurii Egressus.*
2. 41. 54 *Solis limbus factus integer.*

| | Anno Christi MDCLXXVII. Menſe, Die. Styl. Vet. | Temp. App. H. M. | MERCURII DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *D. Galleti Avenione.* | ☉ Oct. 28 | | *Avenione* Johannes Carolus Galletus *Egreſſum Mercurii è Sole animadverterit* 3ʰ. 26′. 56″. *p. m. Hinc differentia Meridianorum* Avenionem *inter & Inſulam* Helenæ 45′ 02″ *temporis, vel* 11′ 15″. Townleium *inter &* Avenionem 32′ 56″, *vel paulo minus,* = 8 ¼ *gr.* | | | |
| *Mercurius in Scorpii* 9° *Sept. Dir.* | ☿ Nov. 9 *vel* ♄ 10 *mane.* | 18 40½ | *Mercurius* —— à Spica Virginis —— | | 491 14 | 20 30 28 |
| | | 42½ | —— rep. | | 491 24 | 20 30 43 |
| | | 47½ | ab Arcturo —— | | 811 94 | 33 54 43 |
| | | 49¼ | —— rep. | | 811 96 | 33 54 46 |
| | | 52½ | à Spica Virginis —— iter. | | 491 50 | 20 31 31 |
| | | 19 01 | —— rep. | | 491 74 | 20 31 49 |
| | | 09⅓ | —— iter. | | 491 98 | 20 32 44 |
| | | 12⅓ | —— iter. | | 491 99 | 20 32 46 |
| | | 20 | —— iter. | | 492 12 | 20 33 05 |
| | | 28¼ | —— iter. | | 492 34 | 20 33 38 |
| | | 36 | —— denuo | | 492 39 | 20 33 46 |
| | MDCLXXVIII. | | | | | |
| *Mercurius in Scorpii* 5° *Sept. Dir.* | ☽ Nov. 4 *vel* ♂ 5 *mane.* | 18 56½ | *Mercurius* —— à Spica Virginis —— | 17 12 15 | 412 18 | 17 12 28 |
| | MDCLXXIX. | | | | | |
| *Mercurius in Gem.* 9° *Sept. Dir.* | ☽ Apr. 28 | 8 32½ | *Mercurius* —— à Polluce —— | 39 36 05 | 948 74 | 39 37 00 |
| | | 40 | —— rep. | 39 35 25 | 948 46 | 39 36 18 |
| *Mercurius in Gem.* 11°½. | ☿ 30 | 8 47½ | *Mercurius* —— ab Humero Aurigæ ſequente | 23 07 25 | 553 90 | 23 08 15 |
| | | 50 | —— rep. | 23 07 05 | 553 76 | 23 07 54 |
| | | 56½ | à Procyone —— | 43 13 00 | 1085 09 | 43 13 27 |
| | | 9 00 | —— rep. | 43 12 45 | 1085 00 | 43 13 14 |
| | | 05 | à Polluce —— | 37 01 05 | 886 75 | 37 01 53 |
| | | 10 | —— rep. | 37 00 25 | 886 45 | 37 01 07 |
| *Mercurius in Gem.* 14° *Merid. Dir. ante Max. Elong.* 2 *dies.* | ♀ Maij 2 | 8 37½ | *Mercurius* —— à Polluce —— | 34 49 30 | 834 18 | 34 50 21 |
| | | 41 | —— rep. | 34 49 00 | 834 00 | 34 49 54 |
| | | 55¾ | ab Humero Aurigæ ſequente | 21 58 25 | 526 50 | 21 59 26 |
| | | 9 05 | à Procyone —— | 41 08 05 | 985 40 | 41 08 57 |
| | | 09 | —— rep. | 41 08 05 | 985 36 | 41 08 51 |
| | | 14 | à Polluce —— | 34 45 20 | 832 40 | 34 45 54 |
| *Mer. in Gem.* 17°. *dies* 1 *poſt Elong. Max. Veſpertinam.* | ☽ 5 | 8 54 | *Mercurius* —— à Polluce —— | 31 57 20 | 765 26 | 31 58 00 |
| | | 58 | —— rep. | 31 56 50 | 765 15 | 31 57 44 |
| | | 9 00½ | —— iter. | 31 56 20 | 764 93 | 31 57 10 |
| | | 08 | à ſequente Humero Aurigæ | 20 51::45 | 500 09 | 20 53::06 |
| | | 12 | —— rep. | 20 51::25 | 499 91 | 20 52::39 |
| | | 18 | à Procyone —— | 38 28 10 | 921 32 | 38 28 21 |
| | | 20 | —— rep. | 38 28 05 | 921 26 | 38 28 12 |
| *Mercurius in Gem.* 18° *Sept. Dir.* | ☿ 7 | 8 41 | *Mercurius* —— à Polluce —— | 30 26 10 | 728 98 | 30 27 00 |

## MERCURII DISTANTIÆ â FIXIS.

| Anno Christi / Mense, Die. Styl. Vet. | Temp. App. H. M. | | | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| MDCLXXIX. | | | | | | | |
| ☉ Oct. 19 vel ☽ 20 mane. | 17 55 | Mercurius | ab Arcturo | 28 51 55 | 691 17 | 28 52 18 | |
| | 57 | | rep. | 28 52 35 | 691 21 | 28 52 24 | |
| | 18 07 | | à Corde Leonis | 55 34 20 | 1330 95 | 55 34 28 | Mercurius in Libræ 20° Sept. Dir. |
| | 09 | | rep. | 55 35 05 | 1331 24 | 55 35 12 | |
| | 30 | | iter. | 55 38 40 | 1332 73 | 55 38 55 | |
| MDCLXXX. | | | | | | | |
| ☿ Apr. 14 | 8 15 1/2 | Mercurius | à Cornu Tauri Boreo | 22 11 55 | 531 64 | 22 12 20 | |
| | 18 1/4 | | rep. | 22 11 40 | 531 55 | 22 12 06 | |
| | 24 | | à Syrio (in equali fere Alt.) | 58 11 35 | 1393 80 | 58 11 31 | Mercurius in Tauri 26° Sept. Dir. |
| | 27 1/5 | | à Procyone | 57 47 30 | 1384 36 | 57 47 57 | |
| | 44 1/4 | | à lucido latere Perfei | 27 21 20 | 654 92 | 27 21 32 | |
| | 48 3/8 | | ab Humero sequent. Orionis | 33 40 50 | 806 16 | 33 40 16 | |
| | 51 1/4 | | rep. | 33 40 00 | 806 05 | 33 40 00 | |
| | 9 00 | | à Palilicio (in ead. fere Alt.) | 12 23 55 | 297 06 | 12 24 20 | |
| ♃ 15 | 8 04 1/2 | Mercurius | à Syrio (equali Alt. fere) | 57 36 15 | 1379 66 | 57 36 12 | |
| | 14 5/6 | | à Capellâ | 28 11 45 | 675 35 | 28 12 42 | |
| | 16 1/5 | | rep. | 28 11 35 | 675 30 | 28 12 34 | Mer. in Tauri 27° 1 in Max. à Sole Elong. |
| | 22 | | à Calce Castoris | 34 00 50 | 814 61 | 34 01 25 | |
| | 26 | | à Procyone | 56 53 45 | 1362 84 | 56 54 10 | |
| | 34 | | à lucido latere Perfei | 27 20 00 | 654 37 | 27 20 09 | |
| | 39 3/4 | | à Calce Castoris iterùm | 33 58 35 | 813 69 | 33 59 06 | |
| | 45 | | à Cornu Tauri superiore | 21 10 05 | 507 12 | 21 10 45 | |
| | 51 1/4 | | à Palilicio (equali Alt. fere) | 11 42 10 | 280 21 | 11 42 09 | |
| ♀ 16 | 8 04 | Mercurius | à Syrio | 57 02 35 | 1366 23 | 57 02 37 | |
| | 12 | | à Capellâ | 27 36 00 | 661 17 | 27 37 10 | Mercurius in Tauri 28° Sept. Dir. |
| | 13 1/2 | | rep. | 27 36 00 | 661 09 | 27 36 58 | |
| | 28 | | à Calce Castoris | 33 07 00 | 792 99 | 33 07 21 | |
| | 34 | | rep. | 33 06 30 | 792 82 | 33 06 55 | |
| | 38 | | ab Hum. sequente Orionis | 32 10 00 | 770 06 | 32 10 00 | |
| | 42 3/5 | | à Procyone | 56 01 55 | 1342 03 | 56 02 10 | |
| | 50 1/3 | | à lucido latere Perfei | 27 18 30 | 653 85 | 27 18 50 | |
| | 52 1/4 | | rep. | 27 18 15 | 653 73 | 27 18 31 | |
| | 56 1/5 | | à Calce Castoris | 33 02 50 | 791 37 | 33 03 18 | |
| MDCLXXXI. | | | | | | | |
| ♃ Mar. 24 | 7 14 1/5 | Venus | à Mercurio | 26 09 10 | 626 38 | 26 09 52 | Mercurius in Tauri 3° Sept. Dir. |
| | 16 1/4 | | rep. | 26 08 55 | 626 29 | 26 09 39 | |
| | 19 4/5 | Mercurius | à Palilicio | 32 54 00 | 787 80 | 32 54 22 | |
| | 21 1/2 | | rep. | 32 53 50 | 787 73 | 32 54 12 | |
| | 23 3/5 | | iter. | 32 53 40 | 787 67 | 32 54 02 | |
| ☿ 30 | 8 12 3/5 | Mercurius | à Venere | 25 53 30 | 620 23 | 25 54 27 | Mercurius in Tauri 10° Sept. Dir. |
| | 15 1/2 | | rep. | 25 52 55 | 619 94 | 25 53 44 | |
| ♃ 31 | 7 | Mercurius | à Venere | 26 15 50 | 628 97 | 26 16 22 | Mercurius in Tauri 11° Sept. Dir. |
| | | | rep. | 26 15 40 | 628 93 | 26 16 16 | |
| | | | iter. | 26 14 25 | 628 51 | 26 15 13 | |
| | | | denuo | 26 14 15 | 628 45 | 26 15 05 | |

| | Anno Christi MDCLXXXII. Mense, Die. Styl. Vet. | Temp. App H. M. | MERCURII DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones & Circuli partes Respondentes. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| *Mercurius in Scorp. 29° Sept. Dir.* | ☉ Jan. 1 | 19 01¼ | *Mercurius* —— ab Antare —— | 24 28 50 | 586 12 | 24 28 55 |
| | | 05½ | —— rep. | 24 29 15 | 586 31 | 24 29 24 |
| | | 13¼ | —— iter. | 24 30 40 | 586 62 | 24 30 10 |
| | | | *Vide Distantias Veneris ab Antare eodem tempore captas, & à Sole post Meridiem ejusdem Diei, inter Veneris Observationes: inde facile colligetur Mercurij à Sole Elongatio.* | | | |
| *Mercurius in Canc. 27° Sept. Dir.* | ☽ Junij 19 | 8 47¼ | *Mercurius* —— à Venere (*Tubo breviore*) —} 3987 = | 00 32 47 | | |
| | | 55 | (*Tubo longiore*) rep. ——} 6676 = | 00 33 18 | | |
| | | 57 | —— iter. 6692 = | 00 33 23 | | |
| | | 9 04 | Differ. Declin. Vener. & Mercurij (*Tubo breviore*) ——} 1460 = | 00 12 00 | | |
| | | 10 | —— melius repet. 1420 = | 00 11 40 | | |
| | | 14 | *Mercurius* —— à Venere (*Tubo breviore.*) —} 3943 = | 00 32 25 | | |
| | | 16 | —— rep. 3932 = | 00 32 20 | | |
| | | | *Mercurius erat in consequentia Veneris, cum Declinatione ad Boream ab eâ.* | | | |
| | MDCLXXXIV. | | | | | |
| *Mercurius in Pisc. 12° Mer. Dir.* | ☉ Feb. 3 | 5 41 | *Mercurius* —— à lucida Arietis —— | 51 06 05 | 1223 80 | 51 06 20 |
| | | 45 | —— rep. | 51 05 45 | 1223 67 | 51 06 00 |
| *Mercurius in Canc. 19° Mer. Dir.* | ☉ Julij 20 | 15 39 | *Mercurius* —— à Palilicio —— | 44 07 35 | 1056 72 | 44 07 38 |
| | | 42 | —— rep. | 44 07 55 | 1056 83 | 44 07 54 |
| | | 49 | —— iter. | 44 08 50 | 1057 16 | 44 08 44 |
| | | 58 | —— denuo. | 44 09 30 | 1057 47 | 44 09 30 |
| | | 16 03 | —— deniq; | 44 09 55 | 1057 63 | 44 09 54 |
| *Mercurius in Canc. 20° ½ Mer. Dir.* | ☽ 21 | 15 31 | *Mercurius* —— à Palilicio —— | 45 16 45 | 1084 38 | 45 16 54 |
| | | 34½ | —— rep. | 45 17 00 | 1084 46 | 45 17 06 |
| | | 38 | —— iter. | 45 17 35 | 1084 65 | 45 17 35 |
| | | 58 | —— denuo. | 45 20 00 | 1085 57 | 45 19 52 |
| | | 16 08 | —— | 45 20 25 | 1085 78 | 45 20 24 |
| | | 17½ | —— | 45 21 15 | 1086 20 | 45 21 27 |
| | | 21 | —— (*Orto jam Sole*) —— | 45 21 25 | 1086 28 | 45 21 39 |
| | | 25 | —— *sed Dubia* | 45 21 45 | 1086 37 | 45 21 53 |
| | MDCLXXXV. | | | | | |
| *Mercurius in Libra 23° Sept. Dir.* | ♀ Oct. 23 | 18 04 | *Mercurius* —— à Regulo —— | 57 34 45 | 1378 95 | 57 34 25 |
| | | 08 | —— rep. | 57 35 25 | 1379 23 | 57 35 07 |
| | MDCLXXXVI. | | | | | |
| | ♀ Oct. 6 | 17 46 | *Mercurius* —— à Saturno —— 4026 = | 00 33 06 | | |
| | | 51 | Differentia Declinat. Saturno in antecedentia & Borealiore ——} 3278 = | 00 26 57 | | |
| | | 54 | —— rep. 3255 = | 00 26 46 | | |

| Anno Christi MDCLXXXVI. Menſe, Die. Styl. Vet. | Temp. App. H. M. | MERCURII DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones & Circuli partes Reſpondentes. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ☿ Oct. 6 | 17 55½ | *Mercurius* —— à Saturno —— 4075 = | 00 33 30 | | | *Mercurius in Libra 6° Sept Dir.* |
| | 18 05 | à Venere —— | 08 27 05 | 202 12 | 08 26 40 | |
| | 12 | à Regulo —— | 40 54 05 | 979 45 | 40 54 01 | |
| | 14 | —— rep. | 40 54 15 | 979 55 | 40 54 16 | |
| | | *Vide Venerem à Regulo, ſub Venere.* | | | | |



# HISTORIÆ COELESTIS

## LIBRI PRIMI,

## PARS QUARTA;

## Lunæ ad Fixas Appulſus,

Et ab Iis DISTANTIAS,

## GRENOVICI

In Obſervatorio Regio,

Ab Anno ineunte 1676, ad Annum 1689.

Ferè COMPLETUM,

SEXTANTE, & Alijs Inſtrumentis Aſtronomicis, Obſervatos;

COMPLECTENS.

## OBSERVATIONES LUNÆ, ANNI MDCLXXVI.

| | |
|---|---|
| ♀ Feb. 11 *veſperi.* | OBſervatus Lunæ tranſitus per Fixas contiguas in Aure Tauri, quarum Borealior *f*, Tychoni eſt in Geminorum 3° 56′ ½, Lat. 1° 04′ Bor. altera Auſtralior *c*, in Geminorum 3° 40′, cum Latitudine etiam Boreali 0° 35′. Harum utrique Fixarum aliam minorem adjacentem inveni, lucidam ſatis, & nudis forſan oculis, abſente Lunâ, conſpiciendam; quarum Hora 9 10′ ad fixas Catalogi *f*, *c*, & Lunam diſpoſitio talis erat, qualis in 77° Schemate depingitur: Obſervationum priores quatuor difficiliores fuere, propter Lunæ nimiam altitudinem, & quoniam Miniſter nondum aderat; reliquæ faciliores, &, ſic credo, accuratæ. |

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS | Distantiæ per Micrometrum cum Circuli partibus Respondentibus. Part. per Micr. | ′ ″ |
|---|---|---|---|---|---|
| ♀ Feb. 11 vesp. | 7 49 40 | 7 26 10 | f, à cuspide proxima Lunæ | 6004 | = 49 36 |
| | 52 30 | 29 00 | rep. | 5918 | = 48 39 |
| | 57 50 | 34 20 | iterum | 5733 | = 47 08 |
| | 8 07 50 | 44 20 | denuo | 5333 | = 43 51 |
| | 27 15 | 8 03 45 | Lunæ Diameter | 3672 | = 30 11 |
| | 30 15 | 6 45 | f, à cuspide proxima | 4618 | = 37 58 |
| | | | d b | 6585 | = 54 08 |
| | 9 00 25 | 36 50 | f, à cuspide iterum | 3683 | = 30 17 |
| | | | f c | 4110 | = 33 48 |
| | 30 25 | 9 06 55 | f, à cuspide | 3112 | = 25 37 |
| | 33 55 | 10 25 | f, in recta per cuspides vel paulò citius | | |
| | 34 30 | 11 00 | rectam sensibiliter superaverat | | |
| | | | f b | 2153 | = 17 44 |
| | | | c d | 662 | = 05 27 |
| | | | f d | 4715 | = 38 36 |
| | | | b c | 6075 | = 49 57 |
| | 55 00 | 31 30 | Lunæ Diameter | 3650 | = 30 00 |
| | 10 29 25 | 10 05 56 | f, à cuspide eadem prox. | 3388 | = 27 51 |

A quarta Annotatione Nubes tenues Lunam transeuntes Fixas è conspectu meo frequentissime subduxere, intereà pro errore Horologii inquirendo Altitudines acceperam.

| Hor. | | Altitud. ° ′ | Hor. supput. h. ′ ″ | Err. Hor. ′ ″ |
|---|---|---|---|---|
| 8 49 35 | Reguli sive Cordis Leonis | 24 13 | 8 25 59 | — 23 30 |
| 55 25 | Lucidæ in lumbis Leonis | 35 06 | 8 31 58 | — 23 27 |
| 9 15 00 | Caudæ Leonis | 28 12 | 8 51 25 | — 23 35 |

☽ Feb. 14 vesp. Lunæ Observatus Appulsus ad 11<sup></sup>em Geminor. cujus locus Tychonicus, ♋ 11° 28′½, Latitudo Meridionalis 2° 06′; ut sequitur.

| | h. ′ ″ | h. ′ ″ | | Part. per Micr. | ′ ″ |
|---|---|---|---|---|---|
| | 6 56 05 | 6 53 05 | Stella à confinio | 4877 | = 40 06 |
| | 7 03 50 | 7 00 30 | à Nucleo Sinæ | 5138 | = 42 13 |
| | 04 05 | 01 05 | à confinio | 4507 | = 37 03 |
| | 22 00 | 19 00 | rep. | 4047 | = 33 33 |
| | 34 40 | 31 40 | iter. | 3698 | = 30 19 |
| | 47 00 | 44 00 | Lunæ Diameter | 3773 | = 31 01 |
| | 51 35 | 48 35 | Stella à limbo prox. | 3330 | = 27 22 |
| | 8 09 45 | 8 06 45 | Stella in recta cum Nucleo Sinæ & Lacu Nigro majore. Cum earum limbis conseq. | | |
| | 11 00 | 08 00 | | | |
| | 13 05 | 10 05 | Stella à limbo prox. | 3016 | = 24 47 |
| | 21 25 | 18 25 | rep. | 2958 | = 24 19 |
| | 30 15 | 27 15 | iter. | 2918 | = 24 00 |
| | 34 00 | 31 00 | iter. | 2918 | = 24 00 |
| | 41 30 | 38 30 | | 2935 | = 24 08 |
| | 50 10 | 47 10 | | 2980 | = 24 30 |

| Hor. | | Altitud. ° ′ | Hor. supp. h. ′ ″ | Err. Hor. ′ ″ |
|---|---|---|---|---|
| 9 06 15 | Caudæ Leonis | 31 41 | 9 03 15 | — 3 00 |
| 09 20 | | 32 11 | 9 06 34 | — 2 46 |

♄ 19 Occultationem 33<sup></sup>æ ♌<sup></sup>is (è Bayero) cujus locus *Tychonicus* ♍ 19°, 52′, Latitudo Austr. 5° 41′ factam 19 Febr. propter Nubes densas Cœlos undiquaque ea Nocte subtegentes observare *Grenovici* non potui, ejusdem autem Observationem *Parisiis* factam sub Cœlo serenissimo ad me humanissime transmisit *J. D. Cassinus* verbis his descriptam.
" Occultationem Stellæ sequentis in posteriore pede Leonis, quam tu supputaveras, in " Regio Observatorio, cum Dom. *Roemero* observavi factam Feb. 19. 10ʰ. 19′ 54″ " *p. m.*

" Immer

Vide Fig. 77.

Vide Fig. 78.

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per Micrometrum cum Circuli partibus Respondentibus. Part. per Micr. | ′ ″ |
|---|---|---|---|---|---|

♄ Feb. 19

"Immersionis plaga fuit juxta finem *Schickardi* versus Phocilidem in Selenographia *Riccioli*.
"Emersio fuit 11h 16′ 40″ in æquali circiter Distantia à *Wendelino* & *Petavio*.
"Per puncta Immersionis & Emersionis ducta recta linea, Diametrum illi perpendicu-"larem abscidit in ratione 6′ 45″ ad 26′ 05″.
"Fuit autem Diameter Lunæ ad Meridianum accedentis 32′ 50″.
"Hora 12 29′, Margo Lunæ superior fuit in eodem parallelo cum Stella, quæ tunc "præcedebat Lunam minutis horariis 1′, 50″.
"Hora 12 40′ 18″ Stella præcedebat Marginem occidentalem Lunæ, minutis hora-"riis 2′ 11″, Lunæ Diameter transibat 2′, 14″.
"Hora 12 52′ 35″ Stella præcedebat eundem Marginem 2′ 25″.
"Altitudo Meridiana limbi Lunæ inferioris capta est 39° 25′ 25″

☽ Feb. 27

Post mediam noctem sequentem, vel 28 ☽ manè. Luna supra Jovem transeunte, sequentes ab ipso captæ Distantiæ.

| Horolog. | Correcta | | Part. per Micr. | ′ ″ |
|---|---|---|---|---|
| 16 08 35 | 16 20 15 | Jupiter à limbo Lunæ lucido | 3155 | = 25 57 |
| 35 20 | 47 00 | Lunæ Diameter | 3800 | = 31 14 |
| 37 50 | 49 30 | Jupiter à Cuspide proxima | 3193 | = 26 15 |
| 40 35 | 52 15 | Jupiter rectam per Cuspides præterierat 3 min. æstimatione | | |
| 44 20 | 56 00 | Jupiter à Cuspide proxima | 3324 | = 27 20 |
| 49 35 | 17 01 15 | à recta per Cuspides | 950 | = 07 48 |
| 51 50 | 03 30 | à Cuspide | 3423 | = 28 08 |
| 55 45 | 07 25 | à rectâ | 1202 | = 09 53 |
| 59 10 | 10 50 | à rectâ | 1438 | = 11 49 |
| 17 03 40 | 21 20 | à limbo remoto | 7483 | = 61 30 |
| 14 20 | 26 00 | à Cuspide | 3982 | = 32 44 |
| 19 45 | 31 25 | à rectâ | 2430 | = 19 59 |
| 25 20 | 37 00 | à Cuspide | 4372 | = 35 57 |
| 29 31 | 41 10 | Lunæ altæ $10\frac{1}{2}$ Diamet. | 3846 | = 31 37 |
| 36 50 | 48 30 | Differ. Altitud. limbi Lunæ inferioris, vere, & Jovis } ♃ d | 2777 | = 22 50 |
| 41 00 | 52 40 | Jupiter à Cuspide proximo | 4985 | = 40 59 |
| 17 58 00 | 18 09 40 | rep. | 5728 | = 47 05 |

Vide Fig. 79.

Sed vix satis certa propter nascentis Diei lucem, quæ adeò Lunæ Cuspides hebetaverat, ut captis ab ijs Distantiis diutius fidere nòn auderem. Mane sequente pro Errore Horologij investigando captæ Altitudines, scilicet.

| | | Altitud. ° ′ | Hor. inde sup. h. ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|
| 20 26 10 | limbi Solis superioris | 20 00 | | |
| 28 04 | rep. | 20 14 | 20 39 13 | + 11 09 |
| 32 14 | limbi etiàm inferioris | 20 14 | 20 43 47 | + 11 33 |

Unde consideratis dierum sequentium erroribus, statui ad tempus transitus præcedentis errorem 10′ 40″, addendum,

Mar. 8

Die Mercurij vesperi Observata occultatio 10æ Arietis, cujus locus *Tychonicus* Tauri 17° 26′, Latitudo 2° 52′ Borea. Fixa *Bayero* est ζ Arietis.

| Horolog. | Correcta | | Part. per Micr. | ′ ″ |
|---|---|---|---|---|
| 6 28 40 | 6 33 00 | Stella à Cuspide inferiore | 3731 | = 30 40 |
| 42 40 | 47 00 | rep. | 3093 | = 25 26 |
| 47 16 | 51 36 | iter. | 2829 | = 23 16 |
| 7 04 25 | 7 08 45 | Tecta Fixa à dicta Cuspide verè Boreâ | 2079 | = 17 05 |
| 09 20 | 13 40 | Lunæ Diameter | 3632 | = 29 51 |
| | | iter. | 3626 | = 29 48 |

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum cum Circuli partibus Respondentibus. Part. per Micr. | ′ ″ |
|---|---|---|---|---|---|
| | | | Altitud. ° ′ — Hor. inde Supp. h. ′ ″ — Err. Horolog. ′ ″ | | |
| Mar. 8 | 7 29 30 | | Caudæ Leonis: 30 57 — 07 33 47 — + 04 37 | | |
| | 32 10 | | 31 21 | | |
| | 35 35 | | 31 53 | | |
| | 37 50 | | 32 13 — 07 42 10 — + 04 20 | | |
| | 8 02 20 | 8 06 40 | Fixam vidi emersam, & à limbo Lunæ distantem quantum Jovis est Diamet. juxta montes *Amadocas Hevelij*, vel *Riccioli Messabalam*. | | |
| | 04 10 | 08 30 | Stella à Cuspide proxima | 1545 | = 12 42 |
| | 11 35 | 15 55 | rep. | 1900 | = 15 37 |

Limbus Lunæ obscurus clarissimè per tubum apparuit, quo editas juxta conjecturas, 11am Arietis lucis Sextæ tectura erat; fixæ locus Tychonicus Tauri 18° 53′, Latitudo 2° 38′ Bor. cujus cepi Distantias.

| | | | | | |
|---|---|---|---|---|---|
| | 8 18 50 | 8 23 10 | 11a Arietis (*Bayero* τ) à limbo obscuro | 6502 | = 53 29 |
| | 29 05 | 33 25 | rep. | 5872 | = 48 17 |
| | 35 00 | 39 20 | 10a Arietis à limbo lucido | 1778 | = 14 35 |
| | 9 15 55 | 9 20 15 | rep. | 4091 | = 33 35 |
| | 35 30 | 39 50 | 10a Arietis à cuspide inferiore | 4280 | = 35 12 |

Mox deinceps Lunam factam humiliorem excepere Vapores fluminis & urbis fuligo, per quos diutius nòn potui videre Fixas, etiamsi maculæ Lunares minutissimæ clare ut antea sed rubicundiores apparuere.

*Vide Fig. 80.* Circa undecimam Arietis aliæ plures fixulæ apparuere, quarum una valdè lucida ad quantitatem diametri Lunaris ab ea Boream versus apparentèr, revera ad Austrum distetit.

Mar. 9 Horæ sexta juxta editas conjecturas Lunæ in eadem Longitudine cum 24a Tauri apparituræ, limbus Austrinus à Fixa distaret, 28′ circiter. Fixæ locus Tychonicus Tauri 28° 54′. Latitudo 1° 12′ Bor. circa hanc, (literâ *f* signatam) duæ aliæ fixæ apparuere, *b* lucida satis, & *c* exigua, quarum ab hac & *a* Lunæ sequentes Observatæ Distantiæ Fixæ *Bayero*, Tauri A.

| | | | | | |
|---|---|---|---|---|---|
| | 6 16 35 | 6 21 35 | Stella *f* à cuspide proxima | 3437 | = 28 19 |
| | 23 10 | 28 10 | à rectâ per cuspides | 530 | = 04 22 |
| | 33 50 | 38 50 | in recta per Cuspides. | | |
| | 34 05 | 39 05 | Rectam vix superaverat. | | |
| | 38 15 | 43 15 | à Cuspide | 3135 | = 25 47 |
| | 46 24 | 51 24 | à recta per Cuspides | 633 | = 05 12 |
| | 49 42 | 54 42 | à limbo lucido | 3105 | = 25 32 |
| | 53 16 | 58 16 | à limbo lucido | 3100 | = 25 29 |
| *vide Fig. 81.* | 7 00 57 | 7 05 57 | à limbo | 3136 | = 25 47 |
| | 05 01 | 10 01 | *b* à limbo | 3661 | = 30 06 |
| | 09 07 | 14 07 | rep. | 3635 | = 29 53 |
| | 14 44 | 19 44 | iter. | 3635 | = 29 53 |
| | 18 42 | 23 42 | Lunæ Diameter | 3648 | = 30 00 |
| | 23 06 | 28 06 | *b* à limbo | 3656 | = 30 03 |
| | 26 06 | 31 06 | Stella *f* à limbo proximo | 3386 | = 27 50 |
| | 53 35 | 58 35 | rep. | 3956 | = 32 31 |
| | 8 20 46 | 8 25 46 | iter. | 4783 | = 39 19 |
| | 32 04 | 37 04 | iter. | 5183 | = 42 39 |
| | 44 57 | 49 57 | iter. | 5715 | = 46 59 |
| | 53 50 | 58 50 | iter. | 6068 | = 49 54 |
| | 59 43 | 9 04 43 | iter. | 6342 | = 52 08 |
| | 9 13 30 | 18 30 | deinuo | 6968 | = 57 17 |
| | 19 59 | 24 59 | *f* à limbo denique | 7278 | = 59 51 |
| | 23 23 | 28 24 | Lunæ Diameter | 3608 | = 29 40 |
| | | | b f | 1132 | = 09 18 |
| | | | b c, cir. | 415 | = 03 25 |

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum, cum Circuli partibus Respondentibus. Part. per Micr. | ′ ″ |
|---|---|---|---|---|---|
| Mar. 8 | | | Pro correctione Horologij intereà Altitudines acceperam. | | |

| Horolog. h ′ ″ | | Altitud. ° ′ | Hora Supp. h ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|
| 7 41 56 | Caudæ Leonis | 33 30 | 7 47 00 | + 05 04 |
| 47 13 | ——————rep. | 34 17 | 52 12 | + 04 59 |
| 8 05 01 | | 36 54 | 8 10 09 | + 05 08 |
| 16 07 | | 38 28 | 21 03 | + 04 56 |

12

Martij 12 Die Solis vesperi, pro Emendatione Horologij investiganda Altitudines Observatæ sequentes.

| Horolog. h ′ ″ | | Altitud. ° ″ | Hora Supp. h ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|
| 10 09 47 | | 37 28 | 10 07 21 | — 02 36 |
| 13 27 | | 37 58 | 10 54 | — 02 33 |
| 16 47 | Arcturi | 38 29 | 14 06 | — 02 41 |
| 19 12 | | 38 51 | 16 44 | — 02 38 |
| 11 13 32 | .... | 46 38 | 10 55 | — 02 37 |
| 50 50 | | 46 57 | | |

Accesserat interea Luna ad mensurabilem Distantiam à 20ª Geminorum, cujus locus *Tychonicus* tùnc Cancri 7° 26′, Latitudo 1° 12′ Meridionalis, cui circa mediam noctem conjuncta erat, ad Austrum transitura equâ sequentes observavi intercapedines. Fixa Geminorum *d*, *Bayero*.

| | | | | | |
|---|---|---|---|---|---|
| 10 25 14 | 10 22 41 | Stella à Cuspide infer. —————— | 6432 | = 52 53 | |
| 30 39 | 28 06 | —————————— rep. | 6182 | = 50 50 | |
| 41 16 | 38 43 | Lunæ Diameter —————— | 3725 | = 30 37 | |
| 45 19 | 42 46 | —————————— rep. | 3705 | = 30 28 | |
| 49 44 | 47 11 | Stella à Cuspide infer. —————— | 5142 | = 42 16 | |
| 11 05 54 | 11 03 21 | —————————— rep. | 4238 | = 34 51 | |
| 19 26 | 16 53 | —————————— iterùm | 3591 | = 29 31 | Vide Fig. 82. |
| 48 01 | 45 28 | —————————— iter. | 2283 | = 18 46 | |
| 53 51 | 51 18 | —————————— iter. | 2088 | = 17 10 | |
| 12 07 22 | 12 04 49 | —————————— denuo | 1808 | = 14 32 | |
| 16 15 | 13 42 | Vel 10″ citius Stella in rectâ per Cuspides | | | |
| 16 32 | 13 59 | Rectam certe superaverat. | | | |
| 18 52 | 16 19 | Stella à limbo lucido —————— | 1876 | = 15 25 | |
| 23 00 | 21 21 | —————————— rep. | 1954 | = 16 04 | |
| 28 55 | 26 22 | Stella à rectâ per Cuspides —————— | 781 | = 06 25 | |
| 34 15 | 31 42 | à limbo —————— | 2245 | = 18 26 | |
| 41 55 | 39 22 | à rectâ per Cuspides —————— | 1606 | = 13 12 | |
| 45 45 | 43 12 | à limbo —————— | 2600 | = 21 23 | |
| 12 49 | 12 46 ½ | Lunæ Diameter —————— | 3691 | = 30 21 | |

☽ 13

Die Lunæ vesperi, appulsum observavi ad 28ªᵐ Geminorum, cujus locus *Tychonicus* tùnc Cancri 20° 33′ Latitudo 2° 42′ Meridionalis. Fixa Geminorum *g*.

| | | | | | |
|---|---|---|---|---|---|
| 11 34 00 | 11 32 00 | Lunæ Diameter —————— | 3745 | = 30 47 | |
| 50 34 | 48 34 | Lac. niger maj. à Stella —————— | 6631 | = 54 31 | |
| 12 13 25 | 12 11 25 | —————————— rep. | 5229 | = 43 00 | |
| 34 19 | 32 19 | Stella à limbo Lunæ remoto —————— | 5834 | = 47 58 | Vide Fig. 83 |
| 40 50 | 38 50 | à limbo lucido —————— | 5431 | = 44 39 | |
| 57 35 | 55 35 | —————————— rep. | 4495 | = 36 57 | |
| 13 00 55 | 58 56 | —————————— iterùm | 4296 | = 35 19 | |
| 13 20 | 13 11 20 | Fixa tecta à Cuspide inferiore —————— | 1610 | = 13 14 | |
| 52 20 | 50 22 | Emersam vidi & lacus Nigri Majoris Longitudinem à limbo lucido distantem. | | | |

| ANNO CHRISTI 1676. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum cum Circuli partibus Respondentibus. Part. per Micr. | ′ ″ |
|---|---|---|---|---|---|
| ☽ Mar. 13 | 13 58 10 | 13 56 12 | Stella à limbo lucido | 412 | = 03 23 |
| | 14 02 00 | 14 00 02 | à limbo rep. | 626 | = 05 09 |
| | 06 44 | 04 46 | iter. | 853 | = 07 00 |

♂ 14 Vesperi, pro Correctione Horologij adipiscenda Altitudines Observatæ Caudæ Leonis sequentes.

| | | Altitud. ° ′ | Hor. Supp. h. ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|
| 7 53 20 | Caudæ Leonis | 36 51 | 07 51 40 | — 01 40 |
| 8 03 15 | | 38 16 | 08 01 35 | — 01 40 |
| 12 45 | | 39 38 | 08 11 17 | — 01 28 |

Apr. 11 Die Martis vesperi, transeunte Luna supra sextam Cancri, cujus locus *Tychonicus* Leonis 9° 3′, Latitudo 5° 8′ Austr. Observata. Cancri α, *Bayero*.

Vide Fig. 84.

| | | | | | |
|---|---|---|---|---|---|
| | 8 14 45 | 8 16 25 | Stella à linea per Cuspides | 631 | = 05 11 |
| | 20 20 | 22 00 | à limbo proximo | 4125 | = 33 55 |
| | 28 04 | 29 44 | Lunæ Diameter | 3795 | = 31 12 |
| | 33 05 | 34 45 | Stella à limbo proximo | 4110 | = 33 47 |
| | 37 08 | 38 48 | à lineâ per Cuspides | 1828 | = 15 01 |
| | 58 00 | 59 40 | Lunæ Diameter | 3796 | = 31 12 |

Mane sequente, pro Correctione Horologij Altitudines captæ sequentes.

| | | Altitud. ° ′ | hor. supp. h ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|
| 20 01 46 | limbi Solis superioris | 29 06½ | 20 03 48 | + 02 02 |
| 5 23 | inferioris | 29 06½ | 07 24 | + 02 01 |
| 07 27 | superioris | 29 57 | 09 32 | + 02 05 |
| 11 04 | inferioris | 29 57 | 13 10 | + 02 06 |

Maij 5 Die Veneris, Vesperi, Lunæ Observatus transitus infra 14am Geminorum lucis quartæ, cujus locus *Tychonicus* Geminorum 28° 56′, cum latitudine Meridionali 0° 58′ Cœlo sereniſſimo. Geminorum ν.

| | | | | | |
|---|---|---|---|---|---|
| | 8 25 20 | 8 26 35 | Stella à limbo Lunæ remoto | 4521 | = 37 10 |
| | 29 09 | 30 24 | A *f* ad dextram | 1185 | = 09 45 |
| | 31 15 | 32 30 | A *f* rep. | 1085 | = 08 55 |
| | 33 36 | 34 51 | Stella à limbo Lunæ remoto | 4403 | = 36 12 |
| | 37 22 | 38 37 | A *f* | 749 | = 6 10 |
| | 40 00 | 41 15 | A *f* | 593 | = 4 53 |
| | 43 32 | 44 47 | Stella à limbo Lunæ remoto | 4336 | = 35 39 |

Nondùm erat in recta per Cuspides, quas Nubecula superveniens adeo hebetaverat, ut difficile admodùm erat earum acutos terminos discernere; mansit nubecula sub Luna usque 8h 54′, asserere propterea nòn poſſum utrum Hora.

Vide Fig. 86.

| | | | | | |
|---|---|---|---|---|---|
| | 8 50 12 | 8 51 27 | Stella in recta per Cuspides fuerit, an paulo cititùs. | | |
| | 53 26 | 54 41 | Rectam notabiliter superaverat, Nubecula deferente Lunam. | | |
| | 54 47 | 56 02 | Stella à limbo lucido | 937 | = 07 42 |
| | 58 00 | 59 15 | rep. | 1004 | = 08 15 |
| | 9 01 14 | 9 02 29 | A f ad sinistram | 585 | = 04 49 |
| | 03 07 | 04 22 | rep. | 738 | = 06 04 |
| | 06 15 | 07 30 | Stella à limbo lucido | 1268 | = 10 26 |
| | 11 00 | 12 15 | Lunæ Diameter | 3608 | = 29 40 |
| | 14 00 | 15 15 | Stella à limbo lucido | 1571 | = 12 55 |

Mane sequente pro correctione Horologij, Altitudines Observatæ.

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantia per Micrometrum, cum Circuli partibus Respondentibus. Part. per Micr. | ' " |
|---|---|---|---|---|---|

**Maij 5**

| | | Altitud. ° ' | Hora Supp. h. ' " | Err. Horolog. ' " |
|---|---|---|---|---|
| 19 40 39 | limbi Solis superioris– | 31 00 | 07 41 39 | + 01 00 |
| 44 06 | inferioris – | 31 00 | 07 45 00 | + 00 54 |
| 46 56 | infer. rep.– | 31 27 | 07 48 02 | + 01 06 |

**7** Die Solis vesperi, tres circa Lunam cum ipsa intra tubi capacitatem apparuere Fixæ, nondùm Catalogo adscriptæ; quarum quæ litera *a* signatur, vix minor quam 6ᵗᵃ lucis erat, *b* paulò minor quam 6ᵗᵃ, & telescopicâ *c*, $10^h\ 14'$ Lunæ locus verus juxta Ephemerides *Heckeri* erat in Cancri $24^\circ\ 42'$, Latitudo $2^\circ\ 44'$ Meridionalis.

| Tempora per Horol. | Tempora Correcta | Lunæ Distantiæ à Fixis | Part. per Micr. | ' " |
|---|---|---|---|---|
| 9 51 40 | 9 51 57 | Lunæ Diameter | 3680 | = 30 15 |
| 54 22 | 54 39 | *c* à limbo obscuro | 5480 | = 45 03 |
| 10 13 22 | 10 13 39 | *b* in recta per Cuspides | | |
| | | *c* ab ea recta | 2530 | = 20 49 |
| 16 46 | 17 02 | *b* à limbo lucido | 2214 | = 18 12 |
| 19 35 | 19 51 | *a* à Cuspide infer. | 2282 | = 18 46 |
| 22 21 | 22 37 | *c* à limbo obscuro | 3815 | = 31 22 |
| | | *a c* | 6325 | = 52 00 |
| | | *c b* | 5198 | = 42 44 |
| | | *a b* | 6975 | = 57 21 |

Vide Fig. 87.

Sequente Mane pro Errore Horologij exantlando, Altitudines captæ sequentes,

| | | Altitud. ° ' | Hora Supp. h. ' " | Err. Horolog. ' " |
|---|---|---|---|---|
| 19 40 10 | limbi Solis inferioris | 30 37 | 19 40 29 | + 00 19 |
| 46 55 | ——— rep. | 31 40 | 47 13 | + 00 18 |
| 53 05 | ——— :: | 32 37 | | |
| 55 35 | ——— | 33 01 | 56 04 | + 00 31 |

**9** Martis vesperi Observata Luna à Telescopica clara, cum juxta Ephemerides obtinuit Leonis $19^\circ\ 23'$ & Latitudinem Meridionalem $4^\circ\ 23'$, ut sequitur.

| Tempora per Horol. | Tempora Correcta | Lunæ Distantiæ à Fixis | Part. per Micr. | ' " |
|---|---|---|---|---|
| 9 33 56 | 9 33 28 | Stella à limbo Lunæ lucido | 6730 | = 55 20 |
| 39 14 | 38 46 | Z ✱ | 1050 | = 08 38 |
| 43 52 | 43 24 | Lunæ Diameter | 3820 | = 31 24 |

Vide Fig. 88.

**31 mane.** Pridie Eclipsis Solaris, vel potius juxta computum Astronomicum, Maij 30, p.m. pro Correctione Horologij sequentes Solis Observatæ Altitudines.

| | | Altitud. ° ' | Hora Supp. h. ' " | Err. Horolog. ' " |
|---|---|---|---|---|
| 19 07 12 | limbi Solis inferioris – | 27 47 | 19 06 09 | + 01 03 |
| 10 16 | ——— rep. | 28 16 | 09 19 | + 00 57 |

**31** Maij 31, vel juxta vulgi computum, Junij 1, Die Jovis mane, ab ortu Solis usq; ad Horam 7ᵃᵐ nubes densæ Cœlos subtegerunt, quæ licet initium Eclipsis cum reliquis Phasibus ab $8^h\ 40'$ subripuere: Satis tamen interea dehiscentes permisere ad Lunæ locum sub Sole visibilem & ejus exinde Latitudinem obtinendam: Sed Diametrum ejus investigare nòn licuit, quoniam nubes sub Sole identidem recurrentes, ventusq; aliquandò impetuosior tubum concutiens destinatas in hunc finem Observationes difficiles & minus certas reddidere. Observationibus peragendis Socium & Adjutorem acciveram Amicum harum rerum peritissimum, D. *Halleium*, Tubos præparassem duos alterum longum digitos 196½, quocum & Micrometro *Townleiano* ego phasium octo priorum cepi mensuras; alterum digitorum solummodo 103½, quocum & Micrometro meæ excogitationis ijs adscriptas mensuras ille acceperit. In duabus tamèn postremis Animadversionibus, Ego minore Tubo & Micrometro proprio, in hunc usum, altero accomodatiore, Distantias cepi Azimutharum per

| ANNO CHRISTI 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | *SOLARIS ECLIPSIS.* | Distantia per Micrometrum, cum Circuli partibus Respondentibus. Part. per Micr. | ' " |
|---|---|---|---|---|---|
| Maij 31 | | | | | |

per Solis limbum lucidum, & Cuspidem proximam Eclipsis decidentium, illo interea partes lucidas & Cuspidum Distantias longiore Tubo dimetiente. Paulo ante initium advenerat Nobilissimus Præses *Regiæ Societatis*, D. *Vicecomes Brounkerus* qui mensuram Diametri solaris, Tubo longiore captam, suo judicio probavit. Hora 7 45′, Sol primùm per nubes explendere cepit, Observata deinde sic se habuere.

*Vide Fig. 89.*

| Hor. Oscill. h. ' " | Alt. Correct. h. ' " | | Tubo longiore. Part. | ' " | | Tubo breviore. Part. | ' " |
|---|---|---|---|---|---|---|---|
| 19 46 00 | 19 45 00 | Nulla Eclipsis, nubes successere. | | | | | |
| 50 00 | 49 00 | Nec etiamnum, nubes iterùm sub Sole. | | | | | |
| 54 50 | 53 50 | Solis è nubibus eluctati. Margo dexter Eclipsatus apparuit. | | | | | |
| 58 24 | 57 24 | —— I C | 2040 | = 10 10 | | | |
| 20 04 12 | 20 03 12 | —— I C | 2773 | = 13 56 | | | |
| 13 40 | 12 40 | —— I C | 3580 | = 17 52 | | | |
| 18 37 | 17 37 | —— P L | 4975 | = 24 50 | | | |
| 21 06 | 20 06 | —— | | | P L | 2989 | = 24 35 |
| | | Sol. Diam. | 6360 | = 31 43 | | 3850 | = 31 40 |
| 28 01 | 27 01 | —— | | | P L | 2888 | = 23 45 |
| 29 01 | 28 01 | —— P L | 4565 | = 22 46 | | | |
| 35 12 | 34 12 | —— P L | 4478 | = 22 18 | Z C | 2310 | = 19 00 |
| 40 26 | 39 26 | —— I C | 4417 | = 22 00 | Z C | 2070 | = 17 02 |
| | | Sol deinceps sub nubibus receptus, latuit usque. | | | | | |
| 22 02 00 | 22 01 00 | Quando limbus, per nubes explendentis, defectu liber apparuit. | | | | | |
| 22 04 00 | 03 00 | Prodeunte Sole clarius, nihil in ejus limbo deficere compertum. | | | | | |

Junij 1 Eodem Die post Meridiem pro ulteriore Horologij verificatione, Altitudines acceptæ.

| | | Altitud. ° ' | Hora Supp. h. ' " | Err. Horolog. ' " |
|---|---|---|---|---|
| 5 32 02 | limbi Solis inferioris — | 22 07 | 05 31 04 | — 00 58 |
| 35 23 | superioris — | 22 07 | 05 34 32 | — 00 51 |
| 37 24 | superioris — | 21 47 | 05 36 44 | — 00 40 |
| 45 17 | inferioris — | 20 07 | 05 44 17 | — 01 00 |

Unde liquet & suam servasse Horologium constantiam, & in Eclipsi justam fuisse ejus Correctionem; quod &, si opus fuerit ab Observationibus dierum sequentium potuit confirmari.

Ejusdem Eclipsis *Londini* in vico Aulæ *Basingentis* Observavit D. *Hainesius* Initium $7^h 50'$.

Finem $9^h 56'$, correcto etiam Horologio per Solis Altitudines Quadrante bipedali captas.

*Wappingæ* juxta *Londinum* ad Anachoretum, *Johannes Colsonus* notavit.

| Tempora juxta Horologium Oscillatorium. h. ' " | Phases. | Solis Altitudines. ° ' | Tempora Correcta ex Altitudinibus h. ' " | |
|---|---|---|---|---|
| 7 34 50 | | 32 46 | 7 36 00 | |
| 37 14 | *mane.* | 33 10 | 7 38 40 | |
| 39 15 | | 33 30 | 7 40 38 | |
| 50 40 | $\frac{1}{4}$ *digiti* | | 7 51 51 | Tubo optico æstimati |
| 8 08 34 | 1 $\frac{1}{4}$ | | 8 09 45 | Tubo & Micrometro mensurati |
| 17 25 | 2 $\frac{1}{16}$ | | 18 36 | mensurati |
| 27 10 | 3 $\frac{2}{16}$ | | 28 21 | mensurati |
| 9 39 | 1 $\frac{1}{2}$ | | 9 40 | æstimati |
| 43 | 1 $\frac{1}{4}$ | | 44 | æstimati |

ANNO CHRISTI 1676.

# SOLARIS ECLIPSIS.

| | Tempora juxta Horol. Oscillator. h. ′ ″ | Phases. | Solis Altitudines. ° ′ | Tempora correcta ex Altitudinibus. h. ′ ″ | |
|---|---|---|---|---|---|
| Junij 1 | 9 54 25 | | | 9 55 36 | non finita Eclipsis |
| | 55 55 | | | 57 06 | finita |
| | 4 26 05 | | 33 20 | 4 26 56 | |
| | 28 58 | | 31 53 | 29 52 | |
| | 31 02 | | 31 31 | 32 16 | |

*Wingfeldiæ*, quæ decem circiter milliaria ad boream à *Derbia* distat, sub Latitud. 53°. 08′, eandem Eclipsin supra Scenam in obscurato Cubiculo, pro more Doctissimi *Hevelii* observavit Geometra peritissimus, Amicus meus singularis, *Imanuel Haltonus*, ut sequitur; scilicet,

| Hor. Horologii Oscillator. correcta h. ′ | |
|---|---|
| 7 50 | Nihil. |
| 7 50 ½ | Initium. |
| 7 52 | Notabilis Defectus. |
| 9 00 | Digiti 3 ½ fere. |
| 9 11 | Digiti 3 $\frac{1}{10}$ |
| 9 21 | Digiti 2 $\frac{11}{100}$ |
| 9 47 ½ | Finis. |

Accuratiores videntur hujus defectus Observationes quas *Townleiæ* in Agro *Lancastriensi* habuit, Mathematicus insignis, & Amicus etiam familiaris meus, *Richardus Townleius*, Armiger, quas literis eodem die ad me datis, verbis ad hunc sensum descripsit.

" Mane ante Eclipsin valde fuerit pluviosum, credo tamen, nisi de ea observanda diffi-
" sus essem, Initium nec secus ac Finem accuratè notare potuissem. Nubes Solem fre-
" quenter subtercurrentes, Ventusq; impetuosior, aliquando Tubum concutiens, accura-
" tas omnino capi mensuras non sinerent, porro & Servus cui scribendi negotium
" mandassem; quippe retro numeravi, vitiosè vereor, aliquando descripsit mensuras
" ut pro 1720 esset forsan 1702; quæcunq; tamen sunt tui esse juris jubeo, quas inverso
" ut per Tubum apparuere situ depinxi Animadversiones.

| Tempora per Horolog. Oscillatorium. h. ′ ″ | Correcta per Lineam Meridianam. h. ′ ″ | Phases. | | ′ ″ | |
|---|---|---|---|---|---|
| 8 06 45 | 8 08 27 | AB | 1190 | 16 09 | vel 1109 = 14′ 56″ |
| 11 00 | 12 42 | CD | 1935 | 26 15 | |
| 18 00 | 19 42 | AB | 1405 | 19 04 | |
| 21 00 | 22 42 | CD | 1805 | 24 30 | |
| 26 14 | 27 56 | AB | 1504 | 20 47 | |
| 34 00 | 35 42 | CD | 1711 | 23 13 | |
| 42 15 | 43 57 | AB | 1551 | 21 03 | *acc.* |
| 46 30 | 48 12 | CD | 1720 | 23 20 | vel 1702 = 23′ 15″ |
| 51 45 | 53 27 | AB | 1553 | 21 04 | *acc.* |
| 9 00 00 | 9 01 42 | CD | 1809 | 24 33 | |
| 12 34 | 14 16 | AB | 1357 | 18 25 | |
| 30 55 | 32 37 | AB | 872 | 11 50 | |
| 41 15 | 42 57 | Finis accuratè quantum per Aeris vibrationem cernere liceret. | | | |

Vide Fig. 90.

| Anno Christi 1676. Styl. Vet. | |
|---|---|

# SOLARIS ECLIPSIS.

Junii 1

" Egressus punctum adeo vertici vicinum erat, ut in quam ab ea partem inclinaverit " definire non potuerim. $9^h$. 30½′ Cuspides Horizonti fuere parallelæ.

" Hora 9 10′ Solis capta Diameter 2334 accurate *N. B.* quod sequente Meridie per " longam lineam Meridianam Horologium justo tardius inventum fuerit scrupulis 1′. 42″ " sed per Scioter icum Amplum Equinoctiale, quo partes scrupulorum, mediis minores, " cernere possum, tardius erat non nisi scrupulis secundis 45.

" Lineam iterum Meridianam examinabo, interea correctioni per hanc potius quàm per " Scioter icum factæ fidendum duco.

" *Townleiæ* suæ Latitudinem Observatam scribit in Epistolis prioribus ad me, 53° 44′ " Longitudinem statuit 2° ½ *gr.* circiter, vel 10 Min. Hor. à Londini ad occasum.

Ejusdem defectus Observationem Gedani habitam ab inclitissimo *J. Hevelio*, ipse ad me in Epistola data Junii 24 humanissime transmisit, huic viginti & sex Phases notatæ quas omnes recensere vix erit operæ pretium, præcipuæ fuere.

| | h | ′ | ″ |
|---|---|---|---|
| Initium | 9 | 22 | 00 |
| Max. obscuratio dig. 4. 22′ | 10 | 31 | 00 |
| Finis | 11 | 39 | 40 |

Animadversiones hujus Eclipsis Parisiis habitas in Observatorio Regio, *J. D. Cassinus* in Epistola ad Oldenburgium data *Julii* 1, 1676, sic describit.

" In nupera Eclipsi Solis non nisi per hiatus nubium, ter vel quater, ac brevibus inter- " vallis, Solem conspicere potuimus. itaque nec ejus principium, nec finem habuimus im- " mediatè; Eæ angustiæ Observandi Methodum mihi suggessère qua tribus vel quatuor " minutis tot percipere Observationes potui, quot sufficiunt Lunæ loco apparenti ejusq. " Diametro ac Eclipsis quantitati, indeque alias Eclipsis Phases, quas immediate Obser- " vare non potui, deducendo, scilicet, cum Sol Nubibus emergeret ad Altitudinem gra- " dum 48 accedens ad eum direxi Quadrantem quem ad hanc Altitudinem immotam " tenui.

" Ex quo Solis margo superior *a* tetigit filum Horizontale *c d* in foco Telescopii ad " adventum Centri *b* fluxere secunda Horaria 104″ = *a b* vel *b r* à transitu Centri *b* ad tran- " situm Marginis Lunæ superioris *o*, secunda 11″ = *b s*.

Vide Fig. 91. " A transitu Centri *b*, ad transitum Cornu superioris Occidentalis *e*, fluxere secunda " 25 ½ = *be*.

" A transitu Centri ad transitum Cornu inferioris & Orientalis *i*, secunda 93 = *ik*.

" Hinc determinatur linea Cornuum *i e*, seclusa variatione, ejusque ad horizontem " inclinatio = *iLk*.

" Et punctum *p* Tangentis, Lunam cum Secante *iep*, & Tangens ipsa *po*, media pro- " portionalis inter *pi*, *pe*, & Anguli *noe*; *toi*; & Triangulum Lunare Circumfe- " rentiæ inscriptum, quem maluissem minus Scalenum, si in mea potestate fuisset Electio.

" Equibus aliisque ex Astronomia datis Intium esse debuisse Parisiis hor. 7. 55′; Fi- " nem verò hor. 10. 12′ mane. Hæc ille.

*N.B.* Ab Altitudine data Centri Solis 48°. 00′, colliguntur tempora Phasium, scilicet

| | | h. | ′ | ″ |
|---|---|---|---|---|
| Transitus limbi | *a* | 9 | 08 | 41 |
| Solis Centri | *b* | 9 | 10 | 25 |
| Lunæ Limbi | *o* | 9 | 10 | 36 |
| Cuspidis superioris | *e* | 9 | 10 | 50½ |
| Cuspidis inferioris | *i* | 9 | 11 | 58 |

Ingeniosa valdè Methodus quæque Geometriæ peritum ostendit Clariss. Observatorem; vix tamen sufficiens ad lineam Cornuum & Lunæ Diametrum investigandam: etenim præterquam quod pars septima scrupuli primi, imo temporis secundo scrupulo, consurgit, & mutatio Loci Lunæ; inter quaslibet Observationes, Cuspides Eclipsis & Punctum *o*, mutat: exigua etiam differentia inter *ki*, & *br*, citusq; ascensus limbi intercepti inter *i r*, punctum *i*, accuratè dari non permittit, unde nec lineam Cornuum.

| ANNO CHRISTI 1676. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h. ′ ″ | *Tempora ex Altitud. Correcta.* ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | *Distantia per Micrometrum cum Circuli partibus Respondentibus.* Part. per Micr | ′ ″ |
|---|---|---|---|---|---|
| ♃ Junii 15 *Vesperi.* | | | Observata Luna plena ab 8ᵛᵃ Sagittarii, cujus locus Tychonicus Capricorni, 10° 31′; Latitudo, 0° 59′ Borea, lucis 4° Aere valde sereno, ut sequitur. | | |
| | 12 30 00 | 12 33 40 | Lunæ altæ 15 *gr.* Diam. (*Tub. brev.*) —— | 4029 | = 33 07 |
| | 42 00 | 45 40 | —— (*Tub. long.*) rep. | 6637 | = 33 06 |
| | 13 39 32 | 13 43 12 | *l* * —— (*Tubobrev.*) —— | 6026 | = 49 33 |
| | 49 50 | 53 30 | *a* * —— | 2221 | = 18 15 |
| | 56 51 | 14 00 31 | *l* * —— | 5023 | = 41 18 |
| | 14 00 32 | 04 12 | *l* * —— | 4817 | = 39 36 |
| | 04 26 | 08 06 | *a* * —— | 2055 | = 16 54 |
| | 15 18 | 18 58 | *a* * —— | 1797 | = 14 46 |
| | 18 40 | 22 20 | *l* * —— | 3770 | = 31 00 |
| | 22 00 | 25 40 | *b* * —— | 2310 | = 19 00 |
| | 25 48 | 29 28 | *l* * —— | 3350 | = 27 32 |
| | 33 10 | 36 50 | *l* * —— | 2926 | = 24 03 |
| | 36 08 | 39 48 | *b* * —— | 1566 | = 12 52 |
| | 46 10 | 49 50 | *l* * —— | 2128 | = 17 30 |
| | 49 00 | 52 40 | *b* * —— | 800 | = 06 34 |
| | 54 09 | 57 49 | *l* * —— | 1677 | = 13 48 |
| | 15 00 33 | 15 04 13 | *b* * —— | 197 | = 01 37 |
| | 02 07 | 05 47 | *l* * —— | 1082 | = 08 54 |
| | 04 45 | 08 25 | *l* * —— | 1000 | = 08 13 |

*Vide Fig.* 92.

Inter hanc & præcedentem Observationem, scilicet Hor. 15 3′ 25″ per Horologium, verè Hora 15 7′ 5″, Fixa erat in eadem Azimutha cum limbo Lunæ sequente. Hora 15 21′, verè 15ʰ 24′ᵃ Stellam videre non potui, videram ante 2 vel 3 minuta Longitudinem Mareotidis à limbo distantem, nunc tectam credo in Verticali Porphyritem pertranseunte. Sed lux diei nascentis & Lunæ plenæ, occultationem accuratè observitare non permiserunt.

Horologii Correctio deducta fuit ab Altitudinibus Solis observatis.

| h. ′ ″ | | *Altitud.* ° ′ | *Hor. Supputat.* h. ′ ″ | *Err. Horolog.* ′ ″ |
|---|---|---|---|---|
| | Junii 13. *p. m. vel* 14. *mane.* | | | |
| 20 25 10 | Limbi Solis inferioris —— | 40 42 | 20 28 07 | + 2 57 |
| 28 16 | —— | 41 11 | 31 19 | + 3 03 |
| 31 09 | —— | 41 37 | 34 04 | + 2 55 |
| 32 43 | —— | 41 50 | 35 42 | + 2 59 |
| | Iterum die 16. ♀ ris, Vesperi | | | |
| 5 03 12 | —— | 25 57 | 5 07 02 | + 3 50 |
| 22 33 | —— | 22 57 | 26 28 | + 3 55 |
| 41 59 | —— | 19 57 | 46 05 | + 4 06 |

Junij 19 — Lunæ Occultationem 22ᵃ Aquarii lucis 4ᵗᵉ cujus locus Tychonicus Piscium 4°. 54′, Lattitudo 4°. 08′ Septentrionalis, promiserunt Ephemerides 10 ʰ. 17′ *p. m.* hanc autem Nubes & Vapores circa Horizontem abstulere, etenim 10ʰ. 22′, clarè Luna explendente Fixam reperire non potui, unde conjicere est tunc anteà tectam; 11ʰ. 00′ pluit, ingensq; & lata valde Iris conspecta in oppositu Lunæ, qua tamen vix ullos colores potui discernere; deinceps intentus in emersionem fixæ oculum & Telescopium in Lunam constanter retinui, unde hujus tempus accuratè me consecutum credo. Observationum Series hæc fuit, Fixa *Bayero* est Aquarii κ.

| ANNO CHRISTI 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' '' | Tempora inde Correcta. h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum cum Circuli partibus Respondentibus. Part. per Micr. | ' '' |
|---|---|---|---|---|---|
| ☽ Junij 19 | 10 22 00 | 10 27 20 | Fixa non apparuit | | |
| | 11 00 00 | 11 05 | Iris ingens in oppositu Lunæ | | |
| | 5 30 | 10 50 | Lunæ Diameter 3808 | | |
| | 11 00 | 16 20 | Stella nondum visa | | |
| | 17 00 | 22 20 | nec etiamnum | | |
| | 19 00 | 24 20 | nec dum conspecta | | |
| | 21 51 | 27 11 | jamjam visa *Emersio* | | |
| | 23 10 | 28 30 | * l ———————— | 3965 | = 32 37 |
| | 27 45 | 33 05 | Z* ———————— | 2542 | = 20 54 |
| | 31 03 | 36 23 | Z* ———————— | 2620 | = 21 32 |
| | 34 35 | 39 55 | * l ———————— | 4653 | = 38 15 |
| | 36 03 | 41 23 | * l ———————— | 4732 | = 38 54 |
| | 11 49 46 | 11 55 06 | Lunæ Diameter ———————— | 3828 | = 31 28 |

Vide Fig. 93.

Hora 11h. 40′, Lunæ rursus in Nubes incidit, per quas etiamsi ejus Diametrum dimetiri potui, nunquam tamen postea Fixa visa fuerit.

♂ 20 *Vesperi* Pro correctione Horologii Altitudines Observatæ.

| | | Altitud. ° ' | Hora supp. h. ' '' | Err. Hor. ' '' |
|---|---|---|---|---|
| 5 17 43 | Limbi Solis inferioris | 23 16 | 5 23 11 | + 5 28 |
| 22 36 | ———————— | 22 31 | 28 08 | + 5 32 |

Ejusdem Fixæ Emersionem à Luna *Oxonii*, ut ad me scripsit, Observavit D. *Halleius* 11°. 20′ 50″, unde Meridianorum nostrorum differentiam deduxit 5′ 30″ justo forsan paulo majorem, vix tamen quantum Instrumentis nostris potuit percipi.

♂ Julij 11 *p. m.* Pro correctione Horologii Altitudines Observatæ.

| | | Altitud. ° ' | Hora supp. h ' '' | Err. Hor. ' '' |
|---|---|---|---|---|
| 4 13 21 | Limbi Solis inferioris | 31 31 | 4 16 28 | + 3 07 |
| 17 39 | | 30 52 | 20 39 | + 3 00 |
| 20 29 | | 30 26 | 23 27 | + 2 58 |
| 22 05 | | 30 11 | 25 04 | + 2 59 |

Vide Fig. 94.

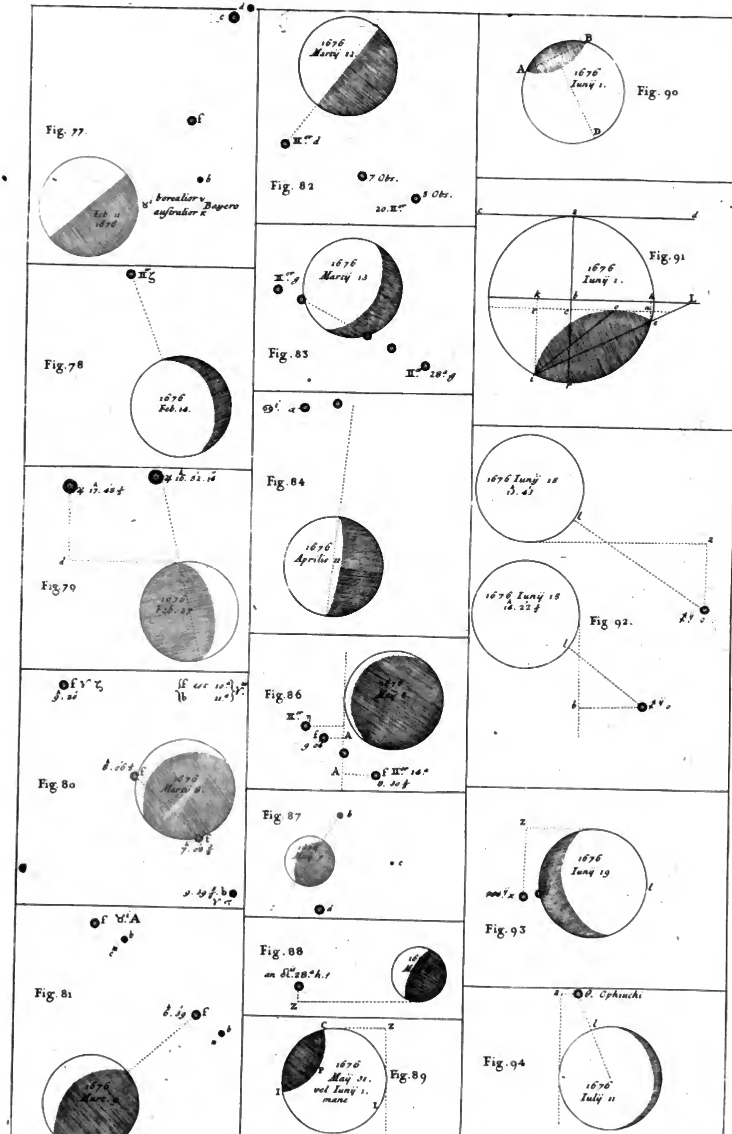
Nocte sequente Observatus Lunæ transitus supra claram in planta pedis Ophiuchi, lucis 3æ cujus Keplero locus, ad tempus instans reductus, Sagittarii 16 50′, Latitudo 1 43′ Australis.

| | | | | | |
|---|---|---|---|---|---|
| 10 30 20 | 10 33 30 | l * ———————— | 1075 | = 8 50 |
| 34 12 | 37 22 | a * ———————— | 900 | = 7 24 |
| 37 15 | 40 25 | a * ———————— | 727 | = 5 58 |
| 39 33 | 42 43 | l * ———————— | 1422 | = 11 41 |
| 45 01 | 48 11 | Lunæ Diameter——alta 10 *gr.*—— | 4005 | = 32 56 |
| 53 35 | 56 45 | ———————— alta 9 ½ *gr.*——rep. | 4010 | = 32 58 |

Hora 10 43′ Lunam Nubes subiere, tenues tamen, per quas ejus commodè Diametrum capere potuerim, etiamsi Fixam deinceps non potui videre.

Ab his Observationibus ad 10h. 42′ 43″ cor. distantiam Centri Lunæ Fixa constitui 27′ 23″ & interstitium Azimuthorum per limbum Lunæ lucidum & Fixam decidentium, 5′ 56″, Lunæ Diametrum correctam. 33′ 07″.

Angulus




I. Senex sculp.

Lib. I. pag. 20

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum, cum Circuli partibus Respondentibus. Part. per Micr. | ′ ″ |
|---|---|---|---|---|---|

Julii 11

Angulus parallacticus, calculo ad idem tempus composito, reperitur 79° 15′, & propterea centrum Lunæ in consequentia Fixæ 15′, 7″, cum Latitudine minore ad Austr. 22′, 50″.

Appulsum hunc *Oxonii* etiam observavit D. *Halleius*, de quo in Epistola *Julii* 13, idiomate vernaculo in hunc sensum ad me scribit.

" Appulsum 10ª hujus Mensis Nubes abstulere: 11ª vidi, Cœlo valdè sereno, ut om-
" nes in pede Serpentarii Fixas cernere potuerim. *Claræ in planta pedis* maturiorem ad
" Lunam Appulsum 15 scru. hor. ac expectaveram, observavi. Nondùm Tubo Micro-
" metrum adaptaveram, quamobrem æstimatione duntaxat per Telescopium facta determi-
" navi, Fixam fuisse in eadem Azimutha cum centro Lunæ, hor. 10 04′ 10″, quo tempo-
" re in recta fuit per Sinam ducta & Porphyriten; hor. 10 49′, erat in eadem Azimutha
" cum limbo Lunæ lucido, præcedebat Lunam alia Fixa, quam ab ipsa emersisse puto 8h½,
" transitum sequentis claram, circa horam 11½, futuram, non expectavi; alia erat exigua
" Fixa quæ sequentem præcedebat, ab eadem distans, conjectura 15′ circiter.

♄ Julij 22

*p. m. n.* Vel 23 mane, Observata Luna à 10ª Arietis lucis 5ª, cujus locus Tychonicus tunc Tauri 17° 26′, Latitudo Septentrionalis, 2° 50′ Fixa Arietis ζ.

| | | | | |
|---|---|---|---|---|
| 15 08 05 | 15 19 10 | Stella à cuspide proxima ———— | 2827 | = 23 16 |
| 12 25 | 23 30 | Stella à limbo remotiore ———— | 6350 | = 52 20 |
| 16 42 | 27 47 | ≈ * ———— | 2487 | = 20 31 |
| 23 50 | 34 55 | ≈ * ———— | 2905 | = 23 57 |
| 29 17 | 40 22 | Stella à limbo Lunæ remoto ———— | 6675 | = 54 54 |
| 31 54 | 42 59 | Stella à recta per cuspides ———— | 2650 | = 21 52 |
| 33 29 | 44 34 | ———— rep. | 2760 | = 22 42 |
| 36 54 | 47 59 | Stella à cuspide proxima ———— | 3675 | = 30 13 |
| 40 49 | 51 54 | ———— rep. | 3850 | = 31 44 |
| 43 18 | 54 23 | Lunæ Diameter ———— | 3682 :: | |
| 53 00 | 16 04 05 | Lunæ altæ 50°, Diameter ———— | 3660 | = 30 10 |

Vide Fig. 95.

Mane sequente pro correctione Horologii investiganda sequentes captæ Altitudines.

| | | Altitud. ° ′ | Hora supputat. h. ′ ″ | Err. Hor. ′ ″ |
|---|---|---|---|---|
| 19 36 19 | Limbi Solis inferioris | 30 05 | 19 47 27 | + 11 08 |
| 45 03 | ———— | 31 26 | 56 17 | + 11 14 |
| 52 13 | ———— | 32 30 | 20 03 19 | + 11 06 |
| 53 42 | ———— | 32 44 | 04 51 | + 11 09 |

Unde liquet debitam in superioribus Horologii emendationem fuisse adhibitam.

E quibus Observatis 15h 27′ 47″ distantiam limbi Lunæ remotioris à Fixa constitui 52′ 40″, Lunæq; tunc Semidiametrum 15′ 04″, & propterea centri Lunæ à Fixa distantiam 37′ 38″, Azimutharum differentia per limbum Lunæ lucidum & Fixam decidentium tunc erat Observata 20′ 31″, distantia igitur Azimutharum per centrum Lunæ & Fixam tunc erat 5′ 29″.

Angulus parallacticus ad Fixam calculo reperitur ad hoc tempus 72° 08′ ergo Lunæ locus in consequentia fixæ 16′ 39″, cum latitudine ad septentrionem minore 33′ 44″.

Ejusdem transitus Observationes, ut etiam occultationis 24ª ♉ⁱ, *Oxonii* factas à D. *Halleio*, ille in Epistola ad me data *Julii* 25, sic descripsit.

| Tempora Corr. h. ′ ″ | | |
|---|---|---|
| 12 10 46 | Arietis 9ª à Cornu Tauri Austrino ———— | 11 01 |
| 17 20 | Arietis 9ª in recta per Cornua non tamen accuratissime | |
| 30 50 | Lunæ altæ 20°, Diameter ———— | 29 49 |
| 57 20 | ———— rep. | 29 48 |

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS | Distantiæ per Micrometrum, cum Circuli partibus Respondentibus. Part per Micr. | ′ ″ |
|---|---|---|---|---|---|
| Julii 22 | | 13 05 15 | Arietis 9ª à cornu Austrino ——— | | 25 32 |
| | | 13 30 | ——— rep. | | 29 10 |
| | | 27 10 | ——— iterum | | 34 47 |
| | | | *Deinde Observata Luna à 10ª Arietis*— | | |
| | | 42 40 | Arietis 10ª à Lunæ limb. proximo— | | 30 27 |
| | | 14 13 10 | ——— rep. | | 23 40 |
| | | 41 50 | Arietis 10ª in recta per corn. à boreo distans | | 20 36 |
| | | 44 00 | parum præterierat rectam per cuspides— | | |
| | | 47 00 | Arietis 10ª borealior Lunæ limbo boreo— | | 20 18 |
| | | 53 00 | Lunæ altæ 41° Diameter ——— | | 29 56 |

Julij 23 Post mediam noctem sequentem observata Occultatio 24ª Tauri cujus locus Tauri 28° 54′, Latitudo 1° 12′ *Sept.* lucis quintæ *Oxonii* ab eodem, ut sequitur.

| | | ′ ″ |
|---|---|---|
| 13 11 35 | Stella à Cornu Austrino ——— | 20 32 |
| 17 15 | Immersio Stellæ a Cornu boreo ——— | 23 20 |
| 14 40 | Lunæ altæ 34 gr. Diameter ——— | 29 48 |

Emersionem quam potius desideraverat, propter Nubes, observare non potuit, ut nec duarum in propinquo minorum Fixarum Occultationes.

Aug. 9 *p. m.* pro correctione Horologii, Solis captæ Altitudines sequentes.

| | | Altitud. ° ′ | Hor. Supputat. h. ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|
| 3 30 26 | Limbi Solis inferioris | 31 54 | 3 33 04 | + 2 38 |
| 32 40 | | 31 34 | 3 35 23 | + 2 43 |
| 37 12 | | 30 54 | 3 39 58 | + 2 46 |

Deinde post occasum Solis observata Occultatio 8ª Sagittarii, cujus locus Tychonicus Capricorni 10° 31′, Lat. 0° 59′ nec non & transitus ejus infra nonam, cujus Longitudo Capricorni 11°. 46′, Lat. 1° 31′ Sept. Cœlo serenissimo. Sagittarii o.

| | | | | | |
|---|---|---|---|---|---|
| | 7 43 45 | 7 46 27 | Stella à limbo Lunæ remoto ——— | 5321 | = 43 45 |
| | 45 48 | 48 30 | ——— rep. | 5226 | = 42 58 |
| | 50 30 | 53 12 | z* ——— | 1056 | = 08 41 |
| Vide Fig. 96. | 8 00 00 | 8 02 42 | z* ——— | 1015 | = 08 21 |
| | 11 05 | 13 47 | Immersio, z* ——— | 965 | = 07 56 |
| | 21 55 | 24 37 | Lunæ altæ 15 *gr.* Diameter ——— | 3979 | = 32 42 |
| | 9 20 30 | 9 23 12 | Emerserat aberatq. à limb. Lunæ lucido dimidium Diametri Jovis, vel 25″ in æquali Altitudine cum limbo apparenter supremo, vere infimo Maræotidis, præcise. | | |
| | 23 39 | 26 21 | *l** 1567= 7 49 \| z*— (*Tubo long.*) | 1910 | = 15 42 |
| | 39 10 | 41 52 | *l** 2179=10 52 \| s* ——— | 1678 | = 13 48 |
| | 45 55 | 48 37 | s* ——— | 1498 | = 12 19 |
| | 10 04 25 | 10 07 07 | s* ——— | 868 | = 7 08 |
| | 15 35 | 18 17 | s* ——— | 422 | = 3 28 |
| | 20 11 | 22 53 | *l** ——— | 3195 | = 26 17 |
| | 34 10 | 36 52 | *l** ——— | 3940 | = 32 24 |
| | 51 50 | 54 32 | *l** ——— | 4961 | = 40 48 |
| | | | *Inter has duas postremas Observationes Lunæ Appulsum ad nonam Sagittarii cepi advertere.* | | |

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' '' | Tempora ex Altitud. Correcta. h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum, cum Circuli partibus Respondentibus. Part. per Micr. | ' '' |
|---|---|---|---|---|---|
| Aug. 9 | 10 38 37 | 10 41 19 | z f ——— | 3554 | = 29 10 |
| | 11 24 40 | 11 27 22 | f l ——— longiore Tubo ——— | 2367 | = 11 49 |
| | 29 10 | 31 52 | ——— | 2211 | = 11 02 |
| | 31 17 | 33 59 | ——— | 2143 | = 10 41 |
| | 33 48 | 36 30 | ——— | 2087 | = 10 25 |
| | 37 19 | 40 01 | ——— | 2043 | = 10 11 |
| | 42 50 | 45 32 | f l ——— | 1261 | = 10 22 |
| | 46 00 | 48 42 | ——— | 1254 | = 10 19 |
| | 51 20 | 54 02 | ——— | 1271 | = 10 27 |
| | 55 40 | 58 22 | ——— | 1324 | = 10 53 |
| | 59 03 | 12 01 45 | e f ——— | 3625 | = 29 48 |
| | 12 00 35 | 03 17 | e f ——— | 3550 | = 29 10 |
| | 1 59 | 04 11 | f l ——— | 1448 | = 11 54 Vide Fig. 97 |

Mane sequente pro correctione Horologii ulterius investiganda Altitudines Observatæ.

| | | Altitud. ° ' | Hor. Suppos. h. ' '' | Err. Horolog. ' '' |
|---|---|---|---|---|
| 20 19 45 | Limbi Solis inferioris | 31 04 | 20 22 28 | + 2 43 |
| 20 55 | ——— | 31 14 | 23 37 | + 2 42 |
| 23 14 | ——— | 31 34 | 25 55 | + 2 41 |
| 24 30 | ——— | 31 44 | 27 07 | + 2 37 |
| 25 36 | ——— | 31 54 | 28 11 | + 2 35 |
| 30 13 | ——— | 32 34 | 32 55 | + 2 42 |

Aug. 14

*p. m. n.* Nubibus tenuibus obducto Cœlo, Lunæ transitum supra 7am Piscium expectavi, attamèn quandoquidem non nisi per intervalla Stellam cernere potuerim, densioresq; Lunam subeuntes nubeculæ, peractas fere Observationes non raro interturbarent, paucas solummodò sequentes mensuras, nèc eas propterea vereor omnino accuratas, assequi potuerim, scilicet;

| | | | | |
|---|---|---|---|---|
| 12 19 45 | 12 22 45 | l * ——— | 5827 | = 47 55 |
| 29 25 | 32 25 | l * ——— | 5626 | = 46 16 |
| 52 12 | 55 12 | z * ——— | 3597 | = 29 34 |
| 13 12 37 | 13 15 37 | A * ——— | 2447 | = 20 08 |
| 15 50 | 18 50 | A * ——— | 2330 | = 19 10 |
| 22 50 | 25 50 | l * ——— | 5155 | = 42 23 Vide Fig. 98. |
| 27 56 | 30 56 | Lunæ Diameter ——— | 3838 | = 31 33 |

Aug. 20

Augusti 20, vel 21 manè, juxta vulgi computum, pro Errore Horologii investigando, Altitudines acceptæ.

| | | Altitud. ° ' | Hor. Suppos. h ' '' | Err. Horol. ' '' |
|---|---|---|---|---|
| 20 04 31 | Limbi Solis inferioris | 26 04 | 20 09 26 | + 4 55 |
| 05 42 | ——— | 26 14 | 10 35 | + 4 53 |
| 07 58 | ——— | 26 34 | 12 53 | + 4 55 |
| 09 10 | ——— | 26 44½ | 14 03 | + 4 53 |
| 10 15 | ——— | 26 54 | 15 12 | + 4 57 |

| ANNO CHRISTI 1676. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h. ′ ″ | *Tempora ex Altitud. Correcta.* h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | *Distantiæ per Micrometrum cum Circuli partibus Respondentibus.* *Part. per Micr.* | ′ ″ |
|---|---|---|---|---|---|
| Aug. 21 | Vel nocte sequente, observata Martis Occultatio unàque Lunæ transitus supra 41<sup></sup>am Tauri, cujus locus Tychonicus Geminorum 17° 58′, Latit. Aust. 01° 20′, Cœlo valdè sereno. Tauri *ο*. | | | | |
| *Vide Fig. 99.* | 10 45 03 | 10 49 58 | ♂ *l* ——— | 5125 | = 42 08 |
| | 11 06 11 | 11 11 05 | ♂ *l* ——— | 3829 | = 31 29 |
| | 20 00 | 24 55 | ♂ *l* ——— | 3007 | = 24 44 |
| | 35 57 | 40 52 | ♂ *l* ——— | 1982 | = 16 18 |
| | 57 31 | 12 02 26 | ♂ *z* ——— | 912 | = 07 35 |
| | | | ♂ *l* Eodem Momento Tubo longiore — | 1158 | = 05 47 |
| | 12 05 00 | 09 55 | Mars diutius nudis oculis conspici non potuit. | | |
| | 09 44 | 14 39 | ♂ *z* ——— | 1185 | = 09 44 |
| | | | *Jam Lux Martis cum Lumine Lunæ confusa erat.* | | |
| | 10 03 | 14 58 | Mars penitus tectus à Cuspide Borea — | 3475 | = 17 20 |
| | 18 38 | 23 33 | 41ª Tauri *ο*, in recta erat per Cuspides } ——— | | |
| | 20 36 | 25 31 | *l* * ——— | 3912 | = 32 10 |
| | 24 58 | 29 53 | *l* * ——— | 3935 | = 32 21 |
| | 46 00 | 50 55 | Lunæ Diameter ——— | 5971 | = 29 47 |
| | 13 04 30 | 13 09 25 | Lunæ Diameter ——— | 5973 | = 29 48 |
| | 10 56 | 15 51 | Martis Emersio forsan 4 vel 5″ citius — | | |
| | 13 29 | 18 24 | Mars à Cuspide inferiore verè Borea — | 3675 | = 18 20 |
| | 18 15 | 23 10 | ——— rep. | 4035 | = 20 08 |
| | 22 00 | 26 55 | Lunæ Diamet. altâ eâ 23° } ——— | 5988 | = 29 55 |
| | 39 00 | 43 55 | —— *Tubo brev.* —— rep. | 3645 | = 29 58 |

*Oxonii*, Aere etiam clementissimo, observavit *D. Halleius*.

| Temp. Corr. h. ′ ″ | |
|---|---|
| 12 10 28 | Contactum limborum Martis & Lunæ |
| 10 40 | Totam Occultationem à limbo boreo 17′ 14″ |
| 13 10 41 | Emersionem |
| 12 45 | Martis à Cornu boreo distantiam 17′ 55″ |

*N. B.* * *Gedani* à Celeberrimo *Hevelio* observata Martis Occultatio 13ʰ. 35′ 42″, Emersio 14ʰ. 46′ 29″, unde deducitur Meridianorum differentia *Grenovicum* inter & *Oxonium* (collatis Immersionum Observatis temporibus, considerata etiam è parallaxibus orta differentia) 4′ 57″, sed *Grenovicum* inter & *Gedanum* 1ʰ. 14′ 50″, at ab Emersionibus inter *Grenovicum* & *Gedanum* 1ʰ. 14′ 41″, *Oxonium* inter & *Grenovicum* 4′ 59″; juxta Calculum D. *Halleii*.

| | | | | | |
|---|---|---|---|---|---|
| ♄ Sep. 16 | Occultationem 23ª Tauri (cujus locus Tychonicus Geminor. 3° 41′, Lat. 0° 38′ Sept.) promiserant Ephemerides hora 4 post mediam noctem, nec non & transitum infra 22am Tauri, (cui Longitudo Geminorum 2° 57′, Latitudo 1° 04′ Sept.) hora 5ª post mediam noctem, Cœlo valdè sereno latuit sub Luna 23ª, mox, ut ab Observatis patet, emersura, cujus à 22ª & à Luna captæ distantiæ, scilicet ad limbum lucidum. | | | | |
| *Vide Fig. 100* | 17 25 41 | 17 33 31 | *l* * ——— | 1356 | = 11 09 |
| | 28 49 | 36 39 | *l* * eadem ——— | | |
| | 31 00 | 38 50 | 23ª emerserat ——— | | |
| | 32 36 | 40 26 | 23ª à limbo lucido ——— | 3722 | = 30 36 |
| | 39 15 | 47 05 | *z* * 23ª ——— | 3510 | = 28 50 |
| | 41 08 | 48 58 | *z* * eadem ——— | | |

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum, cum Circuli partibus Respondentibus. Part. per Micr. | ′ ″ |
|---|---|---|---|---|---|
| Sept. 16 | 17 42 40 | 17 50 30 | 23ª à limbo lucido | 4187 | = 34 26 |
| | 46 33 | 54 23 | Lunæ altæ 52 gr. Diameter | 3679 | = 30 15 |
| | 50 33 | 58 23 | 22ª à 23ª Tauri | 4148 | = 34 06 |

Fixam à me visam in ipsissima ejus à Luna Emersione afferere vix possum; quam tamen pauculis scrupulis secundis notatum tempus antevertisse affirmare audeo; quippè, cum paulo antea limbum diligentèr circumlustrassem, Stella non apparuit, cujus tamen quàm potui citissimè post Emersionem à limbo remotiore Lunæ capta distantia, pauculis duntaxat scrupulis secundis Diametri mensuram exuperat: Emersionis autem tempori sexta pars scrupuli horarii demi possit, propter tempus perditum inter factam Observationem, & momenti Connotationem à meipso factam, Ministro tunc fortè absente, si quis hanc jacturam alicujus momenti esse duxerit.

Sequente mane pro errore Horologii investigando Altitudines observatæ.

| | | | Altitud. ° ′ | Hor. supp. h. ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|---|
| | 20 07 25 | Limbi Solis inferioris | 18 24 | 20 15 21 | + 7 56 |
| | 8 42 | | 18 34 | 16 34 | + 7 52 |
| | 9 55 | | 18 44 | 17 48 | + 7 53 |
| | 11 07 | | 18 54 | 19 01 | + 7 54 |
| 21 | 20 56 08 | Limbi Solis inferioris | 23 14 | 21 07 44 | + 11 35 |
| | 57 32 | | 23 24 | 09 10 | + 11 38 |
| | 58 53 | | 23 34 | 10 38 | + 11 45 |
| | 21 00 32 | | 23 44 | 12 08 | + 11 36 |

Collatis his cum Observationibus diei 16, Horologium justo tardius incessisse compertum scrupulis 44 secundis quotidie, quo circa promovi minutorum indicem 10′ unde provenit Horologii error in sequentibus Animadversionibus solummodo 2′ 20″, quibus erat justo tardius.

22 Post mediam noctem, vel secundum vulgi rationes 23 mane, observata Luna incedens inter 29am Leonis (cujus locus Tychonicus Leonis 17° 05, Latitudo 5° 43″ Merid.) & 28am ejusdem Tychoni quæ in Leonis 17° 36′, cum Latitudine etiam Merid. 4° 48′. Nubibus intereà sub Lunam frequentissimè recurrentibus, ut sequitur.

| | | | | |
|---|---|---|---|---|
| 16 16 19 | 16 18 39 | 28ª à limbo Lunæ lucido | 3990 | = 32 48 |
| 19 04 | 21 24 | rep. | 3828 | = 31 28 |
| 32 13 | 34 33 | iter. | 3055 | = 25 08 |
| 36 20 | 38 40 | Z* 28ª | 887 | = 07 18 |
| 38 25 | 40 45 | rep. | 772 | = 06 21 |
| 39 34 | 41 54 | 28ª à limbo lucido | 2745 | = 22 35 |
| 40 41 | 43 01 | rep. | 2705 | = 22 15 |
| 43 25 | 45 45 | 29ª Leonis à Cusp. vere austr. *Rectam per Cuspides productam nunc præterierat.* | 3075 | = 25 17 |
| 50 03 | 52 23 | 28ª à limbo lucida | 2230 | = 18 21 |
| 52 49 | 55 09 | Z* 28ª | 250 | = 02 03 |
| 17 02 23 | 17 04 44 | 28ª à limbo lucido | 1633 | = 13 26 |
| 14 56 | 17 16 | Lunæ altæ 31° Diameter | 3811 | = 31 19 |
| 22 44 | 25 04 | 28ª à Cuspide verè boreo | 2117 | = 17 24 |
| 31 24 | 33 44 | rep. | 1672 | = 13 46 |

| ANNO CHRISTI 1676. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' '' | Tempora ex Altitud. Correcta. h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum, cum Circuli partibus Respondentibus. Part. per Micr | ' '' |
|---|---|---|---|---|---|
| | | | *Aberat jam à limbo paulo plus quam longitudo Mareotidis.* | | |
| Sept. 22 | 17 37 40 | 17 40 00 | 28ᵃ paulo plus quàm long. Maræot. à limbo. | | |
| | 44 06 | 46 26 | Dimidia longitudo Maræotidis à limbo— | | |
| | 45 29 | 47 49 | à Cuspide vere borea ———— | 935 | = 07 41 |
| | | | à limbo 1′ ———— | | |
| | 49 58 | 52 18 | Valde propinqua limbo ———— | | |
| | 50 58 | 53 18 | Adhucdum visa limb. ferè contig. & 5′ cir. à Cusp. bor. apparenter inferiore distans. | | |

☽ Oct. 30. Observata Occultatio 9ᵃ Sagittarii, lucis 3ᵃ, cujus locus Tychonicus Capricorni 11° 45′, Latitudo Septentrionalis 1° 31′, scilicet Sagittarii π.

Vide Fig. 102.

| Temp. per Horol. | Temp. correcta | Distantiæ | Part. per Micr | ' '' |
|---|---|---|---|---|
| 5 44 36 | 5 56 46 | Fixa tecta à cuspide inferiore ———— | 5435 | = 27 07 |
| 6 00 00 | 6 12 10 | Lunæ altæ 10° ¼, Diameter. ———— | 6554 | = 32 42 |
| 05 00 | 17 10 | ———— rep. | 6547 | = 32 42 |
| 39 00 | 51 10 | Emerserat, sed valde Vicina limb. app. fixa | | |
| 40 24 | 52 34 | Aberat à cuspide superiore verè aust.—— | 2577 | = 12 51 |
| 44 12 | 56 22 | ———— rep. | 2968 | = 14 49 |
| 59 26 | 7 11 36 | Fixa à limbo Lunæ lucido———— | 1837 | = 09 10 |

Inter duas has ultimas Observationes, pro Errore Horologii eruendo, Altitudines acceperam.

| | | Altitud. ° ' | Hora supput. h. ' '' | Err. Horolog. ' '' |
|---|---|---|---|---|
| 6 50 36 | Lucidæ Arietis | 38 05 | 7 02 46 | + 12 10 |
| 55 01 | ———— | 38 45 | 07 04 | + 12 03 |
| 57 12 | ———— | 39 05 | 09 17 | + 12 05 |

♃ Nov. 10 *vesper.* Observata Luna plena & Apogea fere, à 35ᵃ Tauri, cujus locus Tychonicus nunc Geminor. 3° 41′, Latitudo 0° 35′ Septentrionalis.

Vide Fig. 103.

| Temp. per Horol. | Temp. correcta | Distantiæ | Part. per Micr | ' '' |
|---|---|---|---|---|
| 5 09 32 | 5 18 49 | l ✱ ———— (*long. Tub.*) | 2598 | = 12 58 |
| 18 42 | 27 59 | A ✱ ———— (*brev. Tubo*) | 431 | = 03 33 |
| 21 14 | 30 31 | l ✱ ———— | 1426 | = 11 44 |
| 25 20 | 34 37 | Fixa in eadem Azimutha cum limbo Lunæ sequente ———— | | |
| 26 12 | 35 29 | l ✱ ———— | 1285 | = 10 34 |
| 29 18 | 38 35 | l ✱ ———— | 2088 | = 10 25 |
| 37 42 | 46 59 | Lunæ Diam. altâ ea 12° ½ ———— | 5935 | = 29 37 |
| 44 50 | 54 07 | ———— rep. | 5950 | = 29 41 |

Deinde ad inveniendam Horolog. requisitam correctionem, Altitudines observatæ sequentes;

| | | Altitud. ° ' | Hora supput. 0. ' '' | Err. Horolog. ' '' |
|---|---|---|---|---|
| 5 47 24 | lucidæ Arietis | 34 54 | 5 56 40 | + 09 16 |
| 48 30 | ———— | 35 04 | 57 56 | + 09 16 |
| 51 42 | ———— | 35 34 | 6 01 06 | + 09 18 |

Menſe Septembris hujus Anni Sextans circuli, Teleſcopicis inſtructus pinnacidiis, fulcro impoſitus fuerit; cujus beneficio die 14 hujus Menſis, nonnullas habui Obſervationes diſtantiarum Lunæ à Fixis, nèc nòn & ſequentibus Octobre & Novembre: Raras tamen propter diverſa negotia, & minus certas; quas propterea conſulto miſſas habeo; inde exordium ſumens, unde accuratiores fuiſſe conſtat, ſcilicet,

| Anno Christi 1676. Styl. Vet. | Tempora per Horologium Oſcillatorium (h. ' ") | Tempora ex Altitud. Correcta (h. ' ") | LUNÆ DISTANTIÆ à FIXIS. SEXTANTE Captæ. | Diſtantia per Cochleæ Revolutiones (Revol. Cent.) | cum Circuli partibus Reſpondentibus (° ' ") | |
|---|---|---|---|---|---|---|
| ♄ Dec. 2 | 8 20 11 | 8 13 11 | Lunæ limbus lucidus à Markab Pegaſi— | 438 52 | 18 18 30 | |
| | 23 45 | 16 45 | ——rep. | 438 86 | 18 19 21 | |
| | 26 14 | 19 14 | ——iter. | 439 04 | 18 19 48 | |
| | 38 04 | 31 04 | Lunæ limbus remotus & auſtralis ab Extrema alæ Pegaſi —— | 222 76 | 09 18 24 | |
| | 43 09 | 36 09 | ——rep. | 222 16 | 09 16 54 | |
| | 45 07 | 39 07 | ——iter. | 221 85 | 09 16 07 | |
| | 54 46 | 47 46 | Lunæ limbus præced. rem. à clara in lino boreo Piſcium *n*—— | 524 36 | 21 53 57 | ☽ in ♈ 1° Lat. Bor. 5. |
| | 55 58 | 48 58 | ——rep. | 524 02 | 21 53 06 | |
| | 9 04 23 | 57 23 | Lunæ limbus præced. rem. a lucida ad Mandibulam Ceti—— | 1024 10 | 42 45 54 | |
| | 08 31 | 9 01 31 | ——rep. | 1023 53 | 42 44 29 | |
| | 11 47 | 04 47 | ——iter. | 1022 98 | 42 43 06 | |
| | 10 31 56 | Pollucis | Altitud. (° ') 44 14 — Temp. ſupp. (h. ' ") 10 25 04 — Err. Horolog. (' ") — 6 52 | | | |
| | 34 12 | | Altitud. 44 34 — Temp. ſupp. 10 27 14 — Err. Horolog. — 6 52 | | | |
| ♂ 5 | 5 57 50 | 5 56 15 | Lunæ limbus præced.& prox. ab extrema Alæ Pegaſi —— | 793 28 | 33 08 06 | |
| | 6 04 29 | 6 02 55 | ——rep. | 794 38 | 33 10 51 | |
| | 07 46 | 06 12 | ——iter. | 794 90 | 33 12 09 | |
| | 18 30 | 16 56 | Lunæ limbus remot. ab Algol Meduſæ— | 591 17 | 24 41 37 | |
| | 22 04 | 20 30 | ——rep. | 590 80 | 24 40 42 | |
| | 25 08 | 23 34 | ——iter. | 590 54 | 24 40 03 | |
| | 29 51 | 28 17 | Lunæ limb. præc. & rem. à lucida Pleiad. | 448 54 | 18 43 36 | ☽ in ♉ 7° Lat. Bor. 3. |
| | 35 17 | 33 43 | ——rep. | 447 62 | 18 41 18 | |
| | 37 09 | 35 35 | ——iter. | 447 32 | 18 40 33 | |
| | 9 26 14 | Pollucis | Altitud. (° ') 36 54 — Hora ſupp. (h. ' ") 9 24 44 — Err. Horolog. (' ") — 1 30 | | | |
| | 28 26 | | Altitud. 37 14 — Hora ſupp. 26 52 — Err. Horolog. — 1 34 | | | |
| | 29 31 | | Altitud. 37 24 — Hora ſupp. 27 57 — Err. Horolog. — 1 34 | | | |
| | 30 34 | | Altitud. 37 34 — Hora ſupp. 29 01 — Err. Horolog. — 1 33 | | | |
| ☽ 18 | 18 15 44 | Capitis Hercul. | Altitud. (° ') 27 34 — Hora ſupp. (h. ' ") — Err. Horolog. (' ") | | | |
| | 21 10 | | Altitud. 28 24 — Hora ſupp. 18 12 50 — Err. Horolog. — 8 20 | | | |
| | 23 14 | | Altitud. 28 44 — Hora ſupp. 13 56 — Err. Horolog. — 9 18 | | | |
| | 18 50 33 | 18 41 11 | Lunæ limb. lucidus à lance borea Libræ. | 593 07 | 24 46 24 | |
| | 52 24 | 43 02 | ——rep. | 592 87 | 24 45 50 | ☽ in ♎ 24° Lat. Auſt. 4. |
| | 19 03 51 | 54 29 | Lunæ limb. remotus à Vindemiatrice—— | 671 25 | 28 02 27 | |
| | 06 09 | 56 47 | ——rep. | 671 48 | 28 03 01 | |
| | 14 53 | 19 05 31 | Lunæ limb. lucidus à lance borea Libræ. | 589 69 | 24 37 54 | |
| | 17 47 | 08 25 | ——rep. | 589 28 | 24 36 52 | |

| | Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ. DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | | Altitud. ° ′ — Hor. supp. h. ′ ″ — Err. Horolog. ′ ″ | | |
| | ♂ Jan. 16 | 9 20 58 | | 30 24 — 9 19 53 — — 1 05 | | |
| | | 23 16 | Reguli — | 30 44 — 22 07 — — 1 09 | | |
| | | 24 24 | | 30 54 — 23 15 — — 1 59 | | |
| ☽ visa in ♍ 15½ Lat. A. 3. | | 16 32 48 | 16 31 28 | Lunæ limb. seq. & proxim. à Spica Virg. | 656 33 | 27 25 03 |
| | | 36 44 | 35 24 | ——— rep. | 656 97 | 27 26 39 |
| | | 41 22 | 40 02 | ——— iter. | 657 71 | 27 28 30 |
| | | 54 37 | 53 17 | Lunæ limbus proximus ab Ophiuchi Yed | 546 93 | 22 50 37 |
| | | 57 05 | 55 45 | ——— rep. | 546 70 | 22 50 09 |
| | | 17 01 45 | 17 00 25 | ——— iter. | 546 36 | 22 49 12 |
| | | 08 55 | 07 35 | Lunæ limbus proximus à Spica Virg. iter. | 662 77 | 27 41 12 |
| | | 18 15 | 16 55 | ——— rep. | 663 91 | 27 44 03 |
| | | | | Altitud. ° ″ — Hora supp. h ′ ″ — Err. Horolog. ′ ″ | | |
| | ☉ 28 | 8 21 22 | | 27 04 — 8 09 21 — — 12 01 | | |
| | | 23 40 | Reguli — | 27 24 — 11 32 — — 12 08 | | |
| | | 24 54 | | 27 34 — 12 39 — — 12 15 | | |
| | | 27 10 | | 27 54 — 14 51 — — 12 19 | | |
| | ☽ 29 | 6 26 30 | 6 14 10 | Lunæ limbus remot. à Cornu Tauri boreo | 882 57 | 36 51 30 |
| | | 29 38 | 17 18 | ——— rep. | 882 06 | 36 50 13 |
| | | 32 48 | 20 28 | ——— iter. | 881 59 | 36 49 03 |
| | | | | Idem Cornu Tauri & superior duar. ad ρ Arietis juxta Lunam ——— | 858 00 | 35 50 01 |
| | | 55 04 | 42 43 | Lunæ limbus prox. ab Alamech Androm. | 612 37 | 25 34 45 |
| ☽ in ♉ 11°½ Lat. Bor. 2. | | 57 38 | 45 18 | ——— accur. rep. | 612 37 | 25 34 45 |
| | | | | Alamech Andromedæ & ad ρ Borealis — | 632 53 | 26 25 16 |
| | | | | ——— Australis | 639 95 | 26 43 54 |
| | | 7 21 53 | 7 09 33 | Lunæ limb. præced. rem. à Cornu ♉¹ Bor. | 874 38 | 36 30 58 |
| | | 25 23 | 13 03 | ——— rep. | 873 95 | 36 29 53 |
| | | 8 32 46 | 8 20 26 | Australis duarum ad ρ Arietis erat in recta per Cuspides ducta ——— | | |
| | | | | Altitud. ° ′ — Hora supp. h. ′ ″ — Err. Horolog. ′ ″ | | |
| | ☿ 31 | 6 51 32 | | 30 54 — 6 38 41 — — 12 51 | | |
| | | 52 56 | Procyonis | 31 04 — 39 57 — — 12 59 | | |
| | | 54 10 | | 31 14 — 41 16 — — 12 54 | | |
| | | 55 28 | | 31 24 — 42 32 — — 12 56 | | |
| | | 7 25 30 | 7 12 40 | Lunæ limbus præcedens à Polluce ——— | 1037 08 | 43 13 27 |
| | | 30 10 | 17 20 | ——— rep. | 1036 55 | 43 17 07 |
| | | 32 15 | 19 25 | ——— iter. | 1036 17 | 43 15 10 |
| | | 44 36 | 31 48 | Lunæ limbus Boreus à genu Persei ε ——— | 467 09 | 19 30 03 |
| ☽ in ♊ 6°½ Lat. Aust. 0. | | 50 47 | 37 57 | ——— rep. | 467 42 | 19 30 53 |
| | | 58 20 | 45 30 | Lunæ limbus remot. & præced. à Polluce | 1032 57 | 43 07 09 |
| | | 8 01 32 | 48 42 | ——— rep. | 1032 11 | 43 06 00 |
| | | 03 28 | 50 38 | ——— iter. | 1031 87 | 43 05 24 |
| | | 09 18 | 56 28 | Polluce à genu Persei ε ——— | 1145 95 | 47 51 18 |
| | ♃ Feb. 1 | | | Observata Luna à 41ª Tauri, cujus nunc locus *Tychonicus* Gemin. 18° 00′, Lat. 1° 20′, Merid. ut sequitur. Tauri o. | | |
| Vide Fig. 104. | | | | Par. per Mic. — ′ ″ | | |
| | | 6 43 32 | 6 30 42 | Z * ——— 2795 = 22 59 | | |
| | | 48 48 | 35 58 | Z * ——— 2568 = 21 07 | | |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ. DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♃ Feb. 1 | 6 56 49 | 6 43 59 | ☌ * ——— Par. per Mic. 3816 \| = 31 22 ″ ′ | | | Vide Fig. 104. |
| | 7 04 40 | 51 50 | Quantum per vapores assequi potuerim, erat in recta cum Sina & Etna. | | | |
| | 11 28 | 58 38 | Haud plus Diametro Jovis vel 45″, à limbo aberat. Nunc vapores absconderunt Fixam. | | | |
| | 22 00 | 7 09 10 | Rursus apparuit, à limbo remotior, unde constat nunquàm à Luna fuisse tectam; deindè pro errore Horologij cruendo Altitudines Observatæ. | | | |

| | Tempora per Horologium h. ′ ″ | Tempora ex Altitud. | Altitud. ° ′ | Hor. Supp. h. ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|---|
| | 8 21 43 | Reguli | 29 24 | | |
| | 24 02 | | 29 44 | | |
| | 25 c6 | | 29 54 | | |
| | 26 15 | | 30 04 | | |
| | 27 48 | | 30 19 | | |
| ♃ 8 | 15 28 02 | Capitis Ophiuc. | 29 44 | 15 15 18 | — 12 44 |
| | 32 28 | | 30 24 | 19 48 | — 12 40 |
| | 34 40 | | 30 44 | 22 04 | — 12 36 |

| | Tempora per Horologium | Tempora ex Altitud. | Lunæ Distantiæ à Fixis | Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| | 40 | 15 52 03 | ☽ʼs Diam. \| Part. per Mic. 3773 \| =31 01 ′ ″ \| nim. arcta | | | |
| | | | Al. 27½ rep. \| 3801 \| =31 15 \| justa. | | | |
| | 16 07 15 | 15 54 35 | Lunæ limbus sequens à Spica Virginis — | 733 36 | 30 37 57 | ☽ in ♍ 18° Lat. A. 5° |
| | 14 18 | 16 01 38 | ——— rep. | 732 04 | 30 34 39 | |
| | 24 08 | 11 28 | Lunæ limbus remotus à Cauda Leonis — | 441 00 | 18 24 42 | |
| | 26 50 | 14 10 | ——— rep. | 441 00 | 18 24 42 | |
| | 35 10 | 22 30 | Lunæ limb. sequens & prox. à Spica Virg. | 728 18 | 30 24 58 | |
| | 40 30 | 27 50 | ——— rep. | 727 31 | 30 22 47 | |

| | Tempora per Horologium | Tempora ex Altitud. | Altitud. ° ′ | Hor. Supp. h. ′ ″ | Err. Horolog. ′ ″ |
|---|---|---|---|---|---|
| ♂ 27 | 7 51 03 | Reguli | 39 15 | 7 40 21 | — 10 42 |
| | 52 19 | | 39 25 | 41 37 | — 10 42 |
| | 53 38 | | 39 35 | 42 54 | — 10 44 |
| | 55 00 | | 39 46 : : | | |
| | 56 12 | | 39 55 | 45 29 | — 10 43 |

Temporis æquatio demonstrativa 10′ 51″, Errorem Horologij exuperat solummodò 8″, quamobrem tempora ab Horologio indicata media sunt quàm proximè.

| | Tempora per Horologium | Tempora ex Altitud. | Lunæ Distantiæ à Fixis | Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| | 8 33 20 | 8 22 37 | Lunæ limbus præcedens & proximus à lucida Plejadum ——— | 182 21 | 07 36 48 | ☽ in ♊ 3° B. 0. |
| | 36 01 | 25 18 | ——— rep. | 182 65 | 07 37 54 | |

Apparuere nùnc intra tubum, simul cum Luna, duæ Fixæ propinquæ *a*, *b*, & circa Horam 10am tres aliæ *c*, *d*, *e*, quarum *c* est 23a Tauri, (habetq; loco nùnc Geminorum 3° 42′, cum Latitudine Meridionali 0° 24′) è quibus observata deinceps Luna ut sequitur.

| ANNO CHRISTI 1677. *Styl. Vet.* | *Tempora per Horologium Oscillatorium* h. ″ ′ | *Tempora ex Altitud. Correcta.* h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | *Distantia per Micrometrum, cum Circuli partibus Respondentibus.* *Part. per Mic.* | ′ ″ |
|---|---|---|---|---|---|
| Feb. ♂ 27 | 9 12 24 | 9 01 41 | *a l* ——— (*Long. Tubo*) ——— | 3954 | = 19 43 |
| | 15 40 | 04 57 | *a l* ——— | 4063 | = 20 16 |
| | 18 35 | 07 52 | *b k* ——— | 3500 | = 17 28 |
| | | | *a b* ——— | 4217 | = 21 02 |
| | 24 38 | 13 55 | Lunæ Diameter ——— | 6058 | = 30 13 |
| | 27 58 | 17 15 | Lunæ Diameter ——— | 6066 | = 30 15 |
| *Vide Fig.* 105. | 35 30 | 24 47 | *b l* ——— | 3572 | = 17 49 |
| | 38 12 | 27 29 | *a l* ——— | 6307 | = 31 28 |
| | 50 52 | 40 09 | *z b* ——— (*Breviore Tubo*) ——— | 693 | = 05 43 |
| | 54 18 | 43 35 | *z b* * ——— | 552 | = 04 33 |
| | 10 01 26 | 50 43 | *b l* ——— (*Longiore Tubo*) ——— | 5680 | = 28 20 |
| | 09 30 | 58 47 | *x b* ——— (*Breviore Tubo*) ——— | 550 | = 04 32 |
| | 49 00 | 10 38 17 | *c k* ——— | 5042 | = 41 27 |
| | | | *c e* ——— | 6622 | = 54 27 |
| | | | *d e* ——— | 6122 | = 49 50 |
| | | | *c d* ——— | 655 | = 05 24 |
| | 11 08 24 | 57 41 | *d k* ——— (*Long. Tub.*) ——— | 6605 | = 32 58 |
| | 13 06 | 11 02 23 | *c k* ——— (*Brev. Tub.*) ——— | 4555 | = 36 36 |
| | 24 20 | 13 37 | *e o* ——— | 2906 | = 23::54 |
| | 39 24 | 28 41 | *d* in recta per Cuspides ——— | | |
| | 40 07 | 29 24 | *c* in eadem recta ——— | | |
| *Vide Fig.* 106. | 40 54 | 30 11 | *c* rectam notabilitèr superaverat. ——— | | |
| | 43 32 | 32 49 | *c l* ——— | 4596 | = 37 47 |
| | 47 54 | 37 11 | *d l* ——— (*Long. Tub.*) ——— | 6678 | = 33 19 |
| | | | *c d* ——— | 1095 | = 05 28 |
| | 12 00 00 | 49 00 | *c l* ——— (*Brev. Tub.*) ——— | 4916 | = 40 25 |
| | 17 30 | 12 06 47 | *e*, tecta fuit à Cuspide verè Boreo ——— | 1370 | = 11 16 |
| | | | *Sereno valdè Cælo, & tranquillo Aere. Fixæ* a, *in meo Catalogo est, Annoque* 1690, *ineunte in Geminorum* 2° 19′ 18″. *Lat. A.* 0° 19′ 23″. b *in Gem.* 2° 42′ 21″. | | |
| ☿ 28 | | | Observatus Lunæ Transitus infra, $40^{am}$ Tauri, lucis sextæ, cujus nùnc locus *Tychonicus* Geminor. 16° 16′, Latitudo 0° 42′, Meridionalis, ut sequitur, | | |
| | 11 45 28 | 11 35 08 | * *k* ——— | 4906 | = 24 28 |
| | 49 39 | 39 19 | * *k* ——— | 4722 | = 23 33 |
| | 51 06 | 40 46 | Lunæ Diameter ——— | 5985 | = 29 51 |
| | 12 12 17 | 12 01 57 | * *k* ——— | 2450 | = 12 13 |
| | 14 34 | 04 14 | * *k* ——— | 2253 | = 11 14 |
| | 18 00 | 07 40 | Lunæ Diameter ——— | 5998 | = 29 55 |
| | 21 22 | 11 02 | * *k* ——— | 1834 | = 09 09 |
| | 25 52 | 15 32 | ——— | 1650 | = 08 14 |
| *Vide Fig.* 107. | 28 28 | 18 08 | ——— | 1580 | = 07 53 |
| | 33 00 | 22 40 | Stella erat in recta ducta per Cuspides. | | |
| | 33 52 | 23 32 | Rectam sensibilitèr prætererat. | | |
| | 34 40 | 24 20 | * *l* ——— | 1590 | = 07 56 |
| | 36 42 | 26 22 | * *l* ——— | 1670 | = 08 20 |
| | 12 39 50 | 29 30 | * *l* ——— | 1773 | = 08 51 |
| | 41 48 | 31 28 | * *k* ——— | 1990 | = 09 55 |
| | 59 40 | 49 20 | * *l* ——— | 2790 | = 13 55 |
| | 13 02 16 | 51 56 | * *k* ——— | 3780 | = 18 51 |
| | | | *N.B. Quod* k, *pro Cuspide proxima,* l *Limbo proximo,* r, *Limbo remoto ponitur.* | | |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| | | | Altitud. ° ' ; Hor. supput. h. ' " ; Err. Hor. ' " | | | |
| ♃ Mar. 1 | 7 19 30 | | 36 05 ; 7 09 40 ; — 9 50 | | | |
| | 21 56 | | 36 25 ; 12 03 ; — 9 53 | | | |
| | 23 16 | Reguli | 36 35 ; 13 18 ; — 9 58 | | | |
| | 24 32 | | 36 45 ; 14 30 ; — 10 02 | | | |
| | 25 40 | | 36 55 ; 15 43 ; — 9 57 | | | |
| ♂ 27 | 7 45 48 | | 42 15 ; 7 44 29 ; — 1 18 | | | |
| | 48 23 | Caudæ Leonis | 42 35 ; 7 47 01 ; — 1 21 | | | |
| | 49 42 | | 42 45 ; 7 48 17 ; — 1 25 | | | |
| | 50 50 | | 42 55 ; 7 49 34 ; — 1 23 | | | |
| | 8 19 10 | 8 17 50 | Lunæ limbus remotus à sequent. humero Orionis | 501 41 | 20 56 30 | |
| | 21 28 | 20 08 | rep. | 501 11 | 20 55 45 | |
| | 29 03 | 27 43 | Lunæ limbus inferior & rem. à Cornu Tauri boreo | 252 05 | 10 31 40 | |
| | 33 06 | 31 46 | rep. | 251 53 | 10 30 22 | ☽ in ♊ 10°, Lat. Aust. |
| | 40 40 | 39 20 | Lunæ limbus præc. & rem. ab humero Orionis | 498 31 | 20 48 42 | |
| | | | Altitud. ° ' ; Hor. supp. h. ' " ; Err. Hor. ' " | | | |
| ♃ 29 | 7 49 30 | | 43 45 ; 7 48 51 ; — 0 49 | | | |
| | 50 56 | Caudæ Leonis | 43 55 ; 7 50 10 ; — 0 46 | | | |
| | 53 32 | | 44 15 ; 7 52 49 ; — 0 43 | | | |
| | 8 16 28 | 8 15 43 | Lunæ limbus proximus à Capella | 723 61 | 30 13 31 | |
| | 19 20 | 18 35 | rep. | 724 00 | 30 14 30 | |
| | 26 33 | 25 48 | Lunæ limbus remotus & aust. à Polluce | 431 16 | 18 00 03 | |
| | 29 25 | 28 40 | rep. | 430 91 | 17 59 26 | ☽ in ♋ 4°, Lat. Aust. 3. |
| | 30 20 | 29 35 | iter. | 430 75 | 17 59 02 | |
| | 35 27 | 34 42 | Lunæ limbus proximus à Capella | 725 77 | 30 18 57 | |
| | 37 30 | 36 45 | rep. | 725 97 | 30 19 27 | |
| | 39 08 | 38 25 | iter. | 726 15 | 30 20 00 | |
| | 44 | 43 | Sequens humerus Orionis à cornu Tauri boreo | 533 49 | 22 16 57 | |
| | | | *Pro Observatis nocte 27.* | | | |
| | 54 | | Capella à Polluce | 821 24 | 34 18 03 | |
| | | | rep. | 821 21 | 34 17 58 | |
| ♀ 30 | 8 35 33 | 8 35 18 | Lunæ limbus proximus à calce Castoris | 363 19 | 15 09 49 | |
| | 40 30 | 40 15 | rep. | 363 97 | 15 11 46 | |
| | 46 20 | 46 05 | Lunæ limbus remotus a Polluce | 269 32 | 11 14 54 | ☽ in ♋ 15°, Lat. Aust. 4. |
| | 48 40 | 48 25 | rep. | 269 31 | 11 14 52 | |
| | 55 45 | 55 30 | Lunæ limbus proximus à calce Castoris | 366 41 | 15 17 54 | |
| | 57 46 | 57 31 | rep. | 366 76 | 15 18 46 | |
| | 10 53 18 | 10 53 03 | Lunæ altæ 23 gr. Diam. 3620=29′ 45″ | | | |

Nunc 27ª Geminor. cœpit intra tubum cum Luna videri, 40′ circiter in consequentia Cuspidis verè austrinæ; sed densæ mox ipsam subeuntes nubes, appulsus hujus Observationem prohibuere.

| | Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | | Part. per Mic. — ′ ″ | | |
| | ♂ April 3 | 7 31 | 7 32 | Lunæ Diameter — 6235 = 31 06 | | |
| | | 38 20 | 39 12 | Altâ eâ 40 gr. — rep. 6242 = 31 08 | | |
| | | 8 02 | 8 03 | 41½ iter. — 6252 = 31 11 | | |
| ☽ in ♍ 5° ½ Lat. Auſt. 5 ½. | | 25 14 | 27 06 | Lunæ limbus prox. præc. ſuper. à Regulo | 278 31 | 11 37 25 |
| | | 30 50 | 31 42 | — rep. | 279 16 | 11 39 39 |
| | | 36 51 | 37 47 | Lunæ limbus præcedens à cauda Leonis- | 519 89 | 21 42 43 |
| | | 38 31 | 39 23 | — rep. | 519 77 | 21 42 25 |
| | | | | *Tunc nubes uſque.* | | |
| | | 9 31 32 | 9 32 24 | Lunæ limbus proximus à Regulo iterùm- | 288 09 | 12 01 52 |
| | | 33 43 | 34 35 | — rep. | 288 39 | 12 02 37 |
| | | | | *Altitud.* ° ′ — *Hor. ſupputat.* h. ′ ″ — *Err. Horolog.* ′ ″ | | |
| | ♃ 5 vel ♀ 6 *mane.* | 20 35 20 | Limbi Solis inferioris. | 32 12½ — 20 37 05 — + 1 45 | | |
| | | 39 08 | | 32 12½ — 40 56 — + 1 48 | | |
| | | 40 38 | | 32 25 — 42 23 — + 1 45 | | |
| | | 41 52 | | 32 35 — 43 35 — + 1 43 | | |
| | | 44 21 | | 32 55 — 46 01 — + 1 40 | | |
| | ♀ 6 | 8 32 50 | 8 34 42 | Lunæ limbus præc. à Spica Virginis— | 104 19 | 04 21 12 |
| | | 35 35 | 37 23 | — rep. | 103 87 | 04 20 24 |
| | | 42 52 | 44 44 | Lunæ limbus ſuperior à cingulo Virginis, ♍ — | 378 94 | 15 49 13 |
| | | 46 53 | 48 45 | — rep. | 379 37 | 15 50 24 |
| | | 51 55 | 53 47 | Lunæ limbus præced. rem à Spica— | 101 54 | 04 14 33 |
| ☽ in ♎ 16 ¼ Lat. Auſt. 4 ½. | | 54 00 | 55 52 | — rep. | 101 25 | 04 13 50 |
| | | | | Spica Virginis à Cingulo, ♍— | 390 21 | 16 17 28 |
| | | | | Part. per Mic. — ′ ″ | | |
| | | 9 50 30 | 9 52 22 | Lunæ altæ 25 gr. Diameter— 6480 = 32 19½ | | |
| | | | | — rep. 6469 = 32 16 | | |
| | ♀ 27 *Veſp.* | | | Inſpecta Luna Tubo breviore pedum octo, tres in vicinia ejus apparuere Fixæ ſatis lucidæ *a*, & *b* in antecedentia, *e* in conſequentia Centri ſui; has ex illarum eſſe credo numero, quas in Conſtellatione Cancri omiſit Nobilis Danus, etiamſi nudo Oculo vix minores quam Stellæ lucis ſextæ videntur. Obſervatæ Cœlo ſereniſſimo fuere. | | |
| | | | | Part. per Mic. — ′ ″ | | |
| | | 9 27 40 | 9 34 03 | Lunæ Diameter — 3612 = 29 42 | | |
| | | 33 08 | 39 31 | *a c* — 5085 = 41 48 | | |
| Vide Fig. 108. | | 34 16 | 40 39 | *a c* — 5135 = 42 08 | | |
| | | 36 44 | 43 07 | *k e* — 4234 = 34 48 | | |
| | | 39 14 | 45 37 | *b l* — 4541 = 37 20 | | |
| | | 41 16 | 47 39 | *a b* — 5953 = 48 57 | | |
| | | | | *b e* — 5250 = 43 10 | | |
| | | 46 16 | 52 39 | *k e* — 4045 = 33 15 | | |
| | | | | *Aberat nunc fixa* e, 4 *vel* 5 *minuta à recta per Cuſpides, retecto Sextante ejus cepi Diſtantias.* | | |
| | | 10 01 00 | 10 07 24 | *e*, à Regulo— | 743 44 | 31 03 25 |
| | | 22 12 | 28 35 | à Caſtore— | 397 62 | 16 36 01 |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ. DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. evol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♀ Apr. 27 *Vesp.* | | | *Unde Fixæ c locum ad Annum 1600, completum erui, Cancri 23° 28′ 20″. sed ad tempus instans 24° 31′ 54″, cum latitudine australi 4° 00′ ½, unde Lunæ locus facile derivari possit. c fuit trium lucidissima.* *Fixæ c locus, in meo Catalogo Ann. 1690, ineunte, est Cancri 24° 45′ 34″ Latit. Aust. 4° 00′ 21″, a in Canc. 24° 24′ 46″, Lat. Aust. 3° 12′ 35″, b nondum meo Catalogo inseritur.* | | | |
| | | | *Altitud.* ° ″ \| *Hor. suppos.* h. ′ ″ \| *Err. Horolog.* ′ ″ | | | |
| ♄ 28 *mane.* | 20 14 29 | Limbi Solis inferioris. | 34 56 \| 20 21 28 \| + 6 59 | | | |
| | 15 41 | | 35 06 \| 22 35 \| + 6 54 | | | |
| | 16 55 | | 35 16 \| 23 43 \| + 6 48 | | | |
| | 19 06 | | 35 36 \| 25 58 \| + 6 52 | | | |
| | 9 47 50 | 9 54 50 | Lunæ limbus præced. prox. à Pollucee | 506 64 | 21 09 31 | |
| | 50 45 | 57 45 | rep. | 507 13 | 21 10 44 | |
| | 57 09 | 10 04 09 | Lunæ limbus remotus à juba Leonis —γ | 564 18 | 23 34 00 | ☽ in ♌ 6 $\frac{1}{10}$. Lat. Aust. 5 $\frac{1}{2}$. |
| | 10 00 10 | 10 07 10 | rep. | 563 78 | 23 33 00 | |
| | 11 02 | 18 02 | Lunæ limbus præcedens à Polluce | 510 52 | 21 19 15 | |
| | 13 11 | 20 11 | rep. | 510 86 | 21 20 06 | |
| Maij 23 | | | Ab altitudinibus Solis, tum ante tum post Meridiem observatis, Horologium justo tardius repertum 7′ 43″ Meridie; Die verò primo Junii sequente ab Altitudinibus similiter captis solummodo 7′ 00″ unde errorem Horologij statuo ad 30 Maij 7′ 7″. | | | |
| | | | *Part. per Mic.* ′ ″ | | | |
| ♃ 30 | 8 27 30 | 8 34 37 | Lunæ altæ 27° ½, Diam. 6305 \| = 31 27 | | | |
| | 9 48 21 | 9 55 28 | Lunæ Limbus remotus à Spica Virginis | 351 47 | 14 40 34 | |
| | 51 14 | 58 21 | rep. | 351 02 | 14 39 26 | |
| | 54 29 | 10 01 36 | iter. | 350 41 | 14 37 54 | |
| | 10 00 10 | 7 17 | Lunæ limbus proximus à Cauda Leonis | 600 71 | 25 05 30 | ☽ in ♎ 5 $\frac{1}{10}$. Lat. Aust. 5 $\frac{1}{2}$. |
| | 03 24 | 10 31 | rep. | 601 06 | 25 06 22 | |
| | 09 09 | 16 16 | Lunæ limbus remotus à Spica Virginis | 347 81 | 14 31 24 | |
| | 12 00 | 19 07 | rep. | 347 37 | 14 30 18 | |
| | | | *Altitud.* ° ′ \| *Hor. suppos.* h ′ ″ \| *Err. Horolog.* ′ ″ | | | |
| ☿ Jun. 1 | 4 07 37 | Limbi Solis inferioris. | 33 56 \| 4 14 40 \| + 7 03 | | | |
| | 10 55 | | 33 26 \| 17 53 \| + 6 58 | | | |
| | 14 07 | | 32 56 \| 21 06 \| + 6 59 | | | |
| ♂ 5 | 10 40 19 | 10 46 54 | Lunæ limbus sequens ab Antare | 672 20 | 28 04 49 | |
| | 44 15 | 50 50 | In = alt. rep. *Fixa paululùm humiliore.* | 672 92 | 28 06 37 | |
| | 53 56 | 11 00 31 | Lunæ limb. inferior 5ª Serpentis —ζ | 345 94 | 14::26 42 | |
| | 59 00 | 05 35 | rep. | 346 51 | 14::28 07 | |
| | 11 07 55 | 14 30 | Lunæ limb. sequens ab Antare *Tùnc nubes densiores.* | 677 49 | 28 18 06 | |

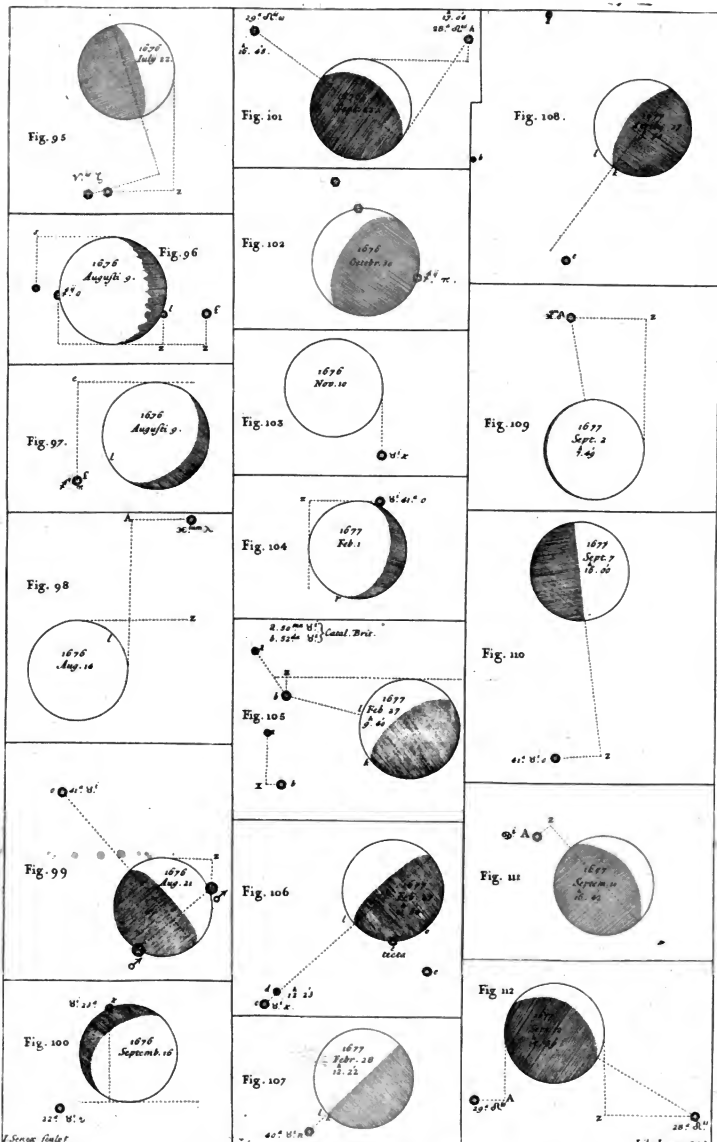
| | Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | ♂ Junij 5 | 11 29 40 | 11 36 00 | Part. per Mic. ′ ″<br>Lunæ altæ 15 gr. Diameter } 6742 = 33 37 | | |
| | | 33 00 | 39 30 | ——— rep. 6739 = 33 37<br>*Non omnino certus sum an ζ fuit, an alia Fixa, propter nubeculas, ipsam tamen fuisse persuadeor.* | | |
| | ♀ 6 | 12 11 45 | 12 18 15 | Lunæ lim. seq. rem. & Ophi. quæ ad genu ⁎ | 846 63 | 35 21 31 |
| | | 15 20 | 21 50 | ——— rep. | 847 33 | 35 23 16 |
| | | 33 15 | 39 45 | ——— iter. | 850 67 | 35 31 39 |
| | | 36 17 | 42 47 | ——— | 851 17 | 35 32 54 |
| | | 41 58 | 48 28 | ——— iterùm, *Luna in Nonagesimo* — | 852 21 | 35 35 30 |
| | | 43 41 | 50 11 | ——— Denique in = alt. cum Fixa — | 852 55 | 35 36 21 |
| | | 49 50 | 56 20 | Lunæ limbus superior ab Aquila ——— | 658 71 | 27 31 01 |
| ☽ in ♑ 18⅓, Lat. B. 2⅓. | | 50 52 | 57 22 | ——— rep. | 658 58 | 27 30 42 |
| | | 13 05 36 | 13 12 06 | Part. per Mic. ′ ″<br>Lunæ Diameter —— 6740 = 33 37 | | |
| | | 08 02 | 14 32 | Altâ eâ 18 gr. rep. 6737 = 33 36 | | |
| | | | | Altitud. ° ′ · Hor. suppur. h. ′ ″ · Err. Horolog. ′ ″ | | |
| | ♃ 7 *manè.* | 19 30 10 | Limbi Solis inferioris. } | 32 46 · 19 36 37 · + 6 27 | | |
| | | 32 16 | | 33 06 · 37 46 · + 6 30 | | |
| | | 34 26 | | 33 26 · 40 54 · + 6 28 | | |
| | | 38 42 | | 34 06 · 45 13 · + 6 31 | | |
| | ☉ 10 | 14 32 19 | 14 38 29 | Lucida Arietis, & Piscium ⁎, juxta Lunam | 1070 32 | 44 41 33 |
| | | 36 35 | 42 42 | Lunæ limbus prox. & seq. à lucida Ariet. | 1077 88 | 45 00 36 |
| | | 38 47 | 44 57 | ——— rep. | 1077 29 | 44 59 07 |
| ☽ in ♓ 18, Lat. B. 4½. | | 46 24 | 52 34 | ☽ ⁎ lim. inf. & aust. à Markab. Peg. *in Nonag.* | 370 12 | 15 27 10 |
| | | 52 15 | 58 25 | Markab à Piscium ⁎ ——— | 358 62 | 14 58 23 |
| | | 55 00 | 15 01 10 | Lunæ limbus boreus & Markab ——— | 357 06 | 14 54 36 |
| | | 15 06 30 | 12 40 | Lunæ limbus sequens à lucida Arietis — | 1072 40 | 44 46 57 |
| | | 08 05 | 14 15 | ——— rep. | 1072 13 | 44 46 17 |
| | | 19 54 | 26 04 | ⁎ Piscium vix Jovis diam. à limbo lucido | | |
| | | 21 18 | 27 28 | Limbum tetigit ad montem Alabastrinum in rect. cum Creta & Porphy. puncti contact. | | |
| | | | | Distantia. Part. per Mic. ′ ″<br>à Cuspide borea —— 2980 = 14 52 | | |
| | | 36 38 | 32 48 | Lunæ alt. 33½ Diam. 6441 = 32 08 | | |
| | ☿ 27 | 9 15 04 | 9 19 04 | Lunæ limbus præc. remot. ab Antare — | 1229 33 | 51 20 12 |
| | | 25 32 | 29 32 | ——— rep. | 1227 58 | 51 15 48 |
| | | 27 50 | 31 50 | ——— meliùs iter. | 1227 11 | 51 14 37 |
| ☽ in ♎ 14, Lat. Aust. 4½. | | 33 12 | 37 12 | Lunæ limbus inferior ab Arcturo ——— | 871 72 | 36 24 18 |
| | | 35 56 | 39 56 | ——— superior ab Arcturo ——— | 859 09 | 35 52 46 |
| | | 42 28 | 46 28 | Lunæ limbus remotus ab Antare ——— | 1224 29 | 51 07 34 |
| | | 52 30 | 56 30 | Part. per Mic. ′ ″<br>Luna alt. 6 gr. Diam. 6165 = 30 45<br>*Erat Luna nunc in 14° Libræ, in Quadratura Solis & Apogæi sui, quo in loco maximam sortitur Orbitæ Æquationem. Nubes impediebant, secus observatam voluissem dum altior fuerit & à tricis Refractionum magis libera; hac de causa augenda est observati diametri mensura nonnihil ab iis contracta. Mane sequente,* | | |

| Anno Christi 1677. Mense Die. Styl. Vet. | Tempora per Horolog. Oscillatorium h ' " | Tempora ex Altitud. Correcta. h ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| | | | Altitud. ° ' · Hora supp. ° ' " · Err. Hor. ' " | | | |
| ♀ Junii 27 | 19 24 28 | limbi Solis inferioris. | 30 46 · 19 28 22 · + 03 54 | | | |
| | 25 32 | | 30 56 · 29 27 · + 03 55 | | | |
| | 27 46 | | 31 16 · 31 36 · + 03 50 | | | |
| | 29 54 | | 31 36 · 33 44 · + 03 50 | | | |
| | 31 59 | | 31 56 · 35 54 · + 03 55 | | | |
| ♃ 28 | 9 14 46 | 9 18 41 | Lunæ altæ 13° Diameter — Part. per Mic. 6347 = ' " 31 40 | | | |
| | 45 59 | 49 55 | Lunæ limbus remotus ab Antare —— | 907 06 | 37 52 46 | |
| | 48 14 | 52 09 | —————— rep. | 906 74 | 37 51 58 | ☽ in ♎ 27° ½ Lat. Aust. 3½ |
| | 49 47 | 53 42 | —————— iter. | 906 42 | 37 51 10 | |
| | 56 59 | 10 00 54 | Lunæ limbus boreus ab Arcturo —— | 847 70 | 35 24 12 | |
| | 59 41 | 03 36 | —————— rep. | 847 70 | 35 24 12 | |
| | 10 04 19 | 08 14 | Lunæ limbus remotus ab Antare —— | 903 65 | 37 44 12 | |
| | 07 51 | 11 46 | —————— rep. | 903 04 | 37 42 41 | |
| ☽ Julii 2 | 9 07 18 | 9 11 04 | Lunæ altæ 14° Diameter — Part. per Mic. 6669 = ' " 33 16 | | | |
| | 10 26 | 14 12 | ——— rep. 6671 = 33 16 | | | |
| | 10 40 52 | 10 44 38 | Lunæ limbus remot. ab inf. in Cornu ♑i β | 829 32 | 34 38 16 | |
| | 44 40 | 49 26 | —————— rep. | 828 60 | 34 36 28 | |
| | 52 12 | 55 58 | Lunæ limbus boreus à lucidiore in sequente Humero Ophiuchi —— β | 647 79 | 27 03 39 | |
| | 55 08 | 58 49 | —————— rep. | 647 79 | 27 03 39 | |
| | 11 00 55 | 11 04 41 | Lunæ limbus rem. à Cornu Capricorni β | 825 44 | 34 28 33 | |
| | 04 04 | 07 50 | —————— rep. | 824 98 | 34 27 24 | |
| | 10 17 | 14 03 | Ophiuchi dicta β à Cornu Capricorni β | 1042 63 | 43 32 20 | |
| | | | *Cœlum erat valde serenum & tranquillus Aer. Luna tum in Sagittarii 25 gr. cum Latitudine 2 gr. Septentrionali.* | | | |
| | | | Altitud. ° ' · Hora supp. h ' " · Err. Hor. ' " | | | |
| | 19 46 02 | limbi Solis inferioris. | 33 36 · 19 49 47 · + 03 45 | | | |
| | 47 05 | | 33 46 · 50 52 · + 03 47 | | | |
| | 48 13 | | 33 56 · 51 56 · + 03 43 | | | |
| | 50 26 | | 34 16 · 54 06 · + 03 40 | | | |
| ☿ 4 | 10 00 00 | 10 03 40 | Lunæ Diameter Part. per Mic. 6715 = ' " 33 30 | | | |
| | | | ——— rep. 6712 = 33 29 | | | |
| | 29 33 | 33 13 | Lunæ limbus remotus à præcedente Humero Aquarii —— | 573 03 | 23 56 12 | |
| | 32 14 | 35 54 | —————— rep. | 572 50 | 23 54 52 | |
| | 35 30 | 39 10 | —— Stellâ parum altiore —— iter. | 571 99 | 23 53 36 | |
| | 45 34 | 49 14 | Lunæ limbus prox. & Boreus ab Aquilæ α | 620 90 | 25 56 07 | |
| | 50 43 | 54 23 | —————— rep. | 620 84 | 25 55 58 | |
| | 56 33 | 11 00 13 | Lunæ limb. rem. ab Humero Aquar. iter | 567 88 | 23 43 16 | |
| | 58 31 | 02 11 | —— Luna in *Nonagesimo* —— rep. | 567 59 | 23 42 33 | ☽ in ♑ 26°. Lat. Bor. 3. |
| | 11 00 19 | 03 59 | —————— iter. | 567 14 | 23 41 25 | |
| | 06 26 | 10 06 | Lunæ limbus Boreus ab Aquilæ —— α | 620 52 | 25 55 10 | |
| | 08 34 | 12 14 | —————— rep. | 620 52 | 25 55 10 | |

| Anno Christi 1677. Mense Die Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora correcta ex Altitudinibus. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| ☿ Julij 4 | 11 13 36 | 11 17 16 | Humerus Aquarii dictus ab Aquilæ —— α | 693 84 | 28 59 04 |
| | 16 10 | 19 50 | —————————— rep. | 693 86 | 28 59 07 |
| | 21 33 | 25 13 | Lunæ limbus præced. ab Humero Aquarii | 563 19 | 23 31 31 |
| | 23 24 | 27 04 | Lunæ limbus sequens ab eadem Fixa —— | 549 35 | 22 56 42 |
| | | | Part. per Mic. ′ ″ | | |
| ♀ 6 | 10 03 50 | 10 07 44 | Lunæ Diameter - \| 6585 \| = 32 51 | | |
| | 07 38 | 11 32 | altâ eâ 11° — rep. \| 6589 \| = 32 52 | | |
| | 11 29 20 | 11 33 14 | Quæ in Capite Pegasi θ & lucidior contiguarum in Cornu Capricorni —— | 803 55 | 33 33 50 |
| | 34 50 | 38 44 | Lunæ limb. seq. & contig. Capric. dicta | 658 36 | 27 30 09 |
| | 41 28 | 45 22 | —————————— rep. | 659 63 | 27 33 19 |
| | 49 29 | 53 23 | Lunæ limb. superior & prox. à θ Pegasi – | 313 94 | 13 06 36 |
| | 51 35 | 55 29 | —————————— rep. | 313 80 | 13 06 15 |
| | 54 50 | 58 44 | —————————— iter. | 313 52 | 13 05 31 |
| | 58 20 | 12 02 14 | Lunæ limb. seq. à sup. cont. in Cornu ♑ | 662 92 | 27 41 34 |
| | 12 01 33 | 05 27 | ——— Luna *in Nonagesimo* —— rep. | 663 49 | 27 43 00 |
| ☽ in ♒ 26°⅔ Lat. Bor. 4½. | 03 35 | 07 29 | —————————— denuò | 663 84 | 27 43 52 |
| | 08 45 | 12 39 | Lunæ limb. superior à θ Pegasi ——— | 312 28 | 13 02 25 |
| | 10 50 | 14 44 | —————————— rep. | 312 11 | 13 02 00 |
| | 12 50 | 16 44 | Lunæ limbus inferior à dicta θ ——— | 325 10 | 13 34 33 |
| | | | Altitud. ° ′ \| Hora Supp. h ′ ″ \| Err. Horolog. ′ ″ | | |
| | 19 28 30 | | 30 26 \| 19 32 28 \| + 03 58 | | |
| | 29 37 | | 30 36 \| 33 32 \| + 03 55 | | |
| | 31 47 | Limbi Solis inferioris. | 30 56 \| 35 42 \| + 03 55 | | |
| | 33 58 | | 31 16 \| 37 47 \| + 03 49 | | |
| | 37 09 | | 31 46 \| 41 04 \| + 03 55 | | |
| | 39 16 | | 32 06 \| 43 08 \| + 03 52 | | |
| | | | Part. per Mic. ′ ″ | | |
| ♂ Aug. 7 | 11 40 46 | 11 50 01 | Lunæ Diameter - \| 6277 \| = 31 19 | | |
| | | | altâ eâ 27°½ - rep. \| 6289 \| = 31 22 | | |
| | 12 00 54 | 12 10 09 | Lunæ limbus proximus à Capella ——— | 1184 18 | 49 27 07 |
| | 03 20 | 12 35 | —————————— rep. | 1183 71 | 49 25 57 |
| | 08 20 | 17 35 | Lunæ limbus remot. à Capite Andromedæ | 759 82 | 31 44 28 |
| ☽ in ♉ 1° Lat. Bor. 2. | 10 54 | 20 09 | —————————— rep. | 759 66 | 31 44 04 |
| | 16 04 | 25 19 | Lunæ limbus integer proximus à Capella | 1181 53 | 49 20 30 |
| | 18 03 | 27 18 | —————————— rep. | 1181 14 | 49 19 31 |
| | | | Altitud. ° ′ \| Hora Supp. h ′ ″ \| Err. Horolog. ′ ″ | | |
| | 19 55 38 | | 29 05 \| 20 04 55 \| + 09 17 | | |
| | 57 49 | | 29 25 \| 07 09 \| + 09 20 | | |
| | 20 01 17 | Limbi Solis inferioris. | 29 55 \| 10 32 \| + 09 15 | | |
| | 03 32 | | 30 15 \| 12 48 \| + 09 16 | | |
| | 05 54 | | 30 35 \| 15 04 \| + 09 10 | | |
| ♂ 28 | 3 57 02 | Limbi Solis inferioris. | 21 05 \| 04 13 52 \| + 16::47 | | |
| | | | Part. per Mic. ′ ″ | | |
| | 7 03 42 | 7 20 32 | Lunæ Diameter - \| 6603 \| = 32 55 | | |
| | 09 50 | 26 40 | alta eâ 18°½ - rep. \| 6605 \| = 32 56 | | |
| | 35 44 | 52 34 | Lunæ limbus proximus à sequent. genu Ophiuchi η, in æquali Alt. ——— | 1031 82 | 43 05 15 |
| | 39 10 | 56 00 | —————————— rep. | 1032 37 | 43 06 37 |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|
| ♂ Aug. 28 | 7 46 02 | 8 02 52 | Lunæ limbus remotus ab Aquila | 627 16 | 26 11 49 | ☽ in ♑ 26°½ Lat. Bor. 3½. |
| | 48 36 | 05 26 | rep. | 627 10 | 26 11 40 | |
| | 54 42 | 11 32 | Lunæ limbus proximus ab Ophiuchi | 1035 15 | 43 13 36 | |
| | 57 45 | 14 35 | rep. | 1035 74 | 43 15 04 | |
| | 8 06 25 | 23 15 | Aquilæ α, ab Ophiuchi | 1116 79 | 46 38 10 | |
| | | | *Cælo valde sereno, & Aere tranquillo.* | | | |
| | | | Altitud. ° ′ — Hora supput. h. ′ ″ — Err. Horolog. ′ ″ | | | |
| ♃ 30 *vel* | 19 55 40 | Limbi Solis inferioris | 23 45 — 20 13 52 — + 18 12 | | | |
| | 58 14 | | 24 05 — 16 13 — + 17 59 | | | |
| ♀ 31 *mane.* | 20 00 34 | | 24 25 — 18 35 — + 18 01 | | | |
| | 02 58 | | 24 45 — 20 58 — + 18 00 | | | |
| | 05 20 | | 25 05 — 23 22 — + 18 02 | | | |
| ♀ 31 | 7 17 06 | 7 35 22 | Lunæ Diameter — Par. per Mic. 6579 = 32′ 49″ | | | |
| | 47 30 | 8 05 46 | Altâ eâ 20° rep. — 6585 = 32 51 | | | |
| | 8 55 44 | 9 14 00 | Lunæ limb. præced. rem. à lucida Arietis | 1235 96 | 51 36 48 | |
| | 58 00 | 16 16 | Luna in *Nonagesimo* rep. | 1235 50 | 51 35 39 | |
| | 9 04 51 | 23 07 | Lunæ limbus proximus à Collo Pegasi ζ | 320 72 | 13 23 34 | |
| | 07 34 | 25 50 | rep. | 320 62 | 13 23 20 | ☽ in ♓ 11° ½ Lat. Bor. 4. |
| | 15 28 | 33 44 | Lunæ limbus præcedens à lucida Ariet. | 1232 14 | 51 27 13 | |
| | 19 15 | 37 31 | rep. | 1231 53 | 51 25 42 | |
| | 26 08 | 44 24 | Lucida Arietis à Collo Pegasi ζ | 1208 03 | 50 26 48 | |
| ☉ Sept. 2 | | | Vesperi, juxta editas in Diario conjecturas, Lunæ in eadem Longitudine cum præcedente trium lucidiorum in lino Piscium, litera δ à Bayero signatam, limbus austrinus distaret à Fixa 23′. | | | |
| | | | *Stellæ locus tùnc Arietis 9° 40′, Latit. 2° 11′ Sept. Cælo serenissimo observata.* | | | |
| | 7 11 30 | 7 30 50 | * *l* — Par. per Mic. 5542 = 27′ 39″ | | | |
| | 15 04 | 34 24 | * *l* — 5365 = 26 46 | | | |
| | 29 48 | 49 08 | * *l* — 5055 = 25 13 | | | |
| | | | z * eod. mom. — 2870 = 23 36 | | | |
| | 38 50 | 58 10 | * *l* — 5075 = 25 19 | | | Vide Fig. 109. |
| | 45 22 | 8 04 42 | ☽ z altæ 13°½ Diameter — 6412 = 31 59 | | | |
| | | | *Sed de hac Diametri mensura, haud ità certus esse potui, propter nubes Lunam subeuntes; attamèn nòn multum credo vitiosam.* | | | |
| | | | Altitud. ° ′ — Hora supput. h. ′ ″ — Err. Horolog. ′ ″ | | | |
| ☉ 2 *vel* | 19 45 52 | Limbi Solis inferioris | 21 35 — 20 05 16 — + 19 24 | | | |
| | 48 08 | | 21 55 — 07 39 — + 19 31 | | | |
| ☽ 3 *mane.* | 50 28 | | 22 15 — 10 02 — + 19 34 | | | |
| | 52 42 | | 22 35 — 12 21 — + 19 39 | | | |
| | 55 08 | | 22 55 — 14 40 — + 19 32 | | | |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|
| | | | Altitud. ° ′ — Hor. suppt. h ′ ″ — Err. Horol. ′ ″ | | |
| ☿ Sept. 5 *vel* | 20 02 02 | | 23 05 — 20 22 47 — + 20 45 | | |
| | 05 26 | Limbi | 23 35 — 26 26 — + 21 00 | | |
| ♃ 6 | 08 00 | Solis in- | 23 55 — 28 53 — + 20 53 | | |
| *mane.* | 10 34 | ferioris. | 24 15 — 31 31 — + 20 47 | | |
| | 13 02 | | 24 35 — 33 49 — + 20 47 | | |
| ♀ 7 (*Vide Fig. 110.*) | | | Post mediam noctem vel 8 mane, observata Luna à 40ª Tauri, cujus tùnc locus Tychonicus Geminor. 18′ 00″, Latitudo Austrina 1° 20′, Cœlo valde sereno; attamèn cum Luna altior extiterit, de captis mensuris nòn omninò certus esse potui. | | |
| | | | Part. per Mic. — ′ ″ | | |
| | 15 45 | 16 06 40 | Lunæ Diameter—— 6095 = 30 24 | | |
| | 55 38 | 17 18 | * c —— *Min. Tub.* 5252 = 43 11 | | |
| | 16 00 20 | 22 00 | z * —— 1658 = 13 38 | | |
| | 08 40 | 30 20 | c * —— 5470 = 44 59 | | |
| ☉ 9 | 16 08 40 | 16 31 15 | Lunæ limbus remotus a Palilicio—— | 890 10 | 37 10 15 |
| | 11 43 | 34 18 | —— rep. | 893 65 | 37 11 37 |
| ☽ in ♋ 12° ½, Lat. Aust. 4. | 18 32 | 41 07 | Lunæ limbus proximus à Castore—— | 342 09 | 14 17 04 |
| | 20 40 | 43 15 | —— rep. | 342 00 | 14 16 51 |
| | 25 46 | 48 21 | Lunæ limbus remotus à Palilicio—— | 892 76 | 37 16 55 |
| | 27 52 | 50 27 | —— rep. | 893 09 | 37 17 45 |
| | | | Mane sequente pro correctione Horologij observatæ | | |
| | | | Altitud. ° ′ — Hor. suppt. h. ′ ″ — Err. Horolog. ′ ″ | | |
| | 19 48 56 | | 20 15 — 20 11 39 — + 22 43 | | |
| | 57 32 | Limbi | 21 25 — 20 05 — + 22 35 | | |
| | 20 05 56 | Solis in- | 22 35 — 28 40 — + 22 44 | | |
| | 12 18 | ferioris. | 23 25 — 35 01 — + 22 43 | | |
| | 16 11 | | 23 55 — 38 42 — + 22 31 | | |
| | | | Part. per Mic. — ′ ″ | | |
| ♂ 11 | 14 10 15 | 14 33 51 | Lunæ alt. 11° Diam. 5955 = 29 42 | | |
| | 14 30 | 38 06 | —— rep. 5959 = 29 43 | | |
| | 15 43 44 | 16 07 20 | Lunæ limbus remotus à Procyone —— | 438 77 | 18 19 07 |
| | 45 56 | 09 32 | —— rep. | 439 21 | 18 20 13 |
| ☽ in ♌ 6°, Lat. Aust. 5. | 50 21 | 13 57 | Lunæ limbus remotus à Polluce —— | 510 12 | 21 18 15 |
| | 53 43 | 17 19 | —— rep. | 510 56 | 21 19 21 |
| | 56 33 | 20 09 | Lunæ limbus remotus à Procyone—— | 440 49 | 18 23 25 |
| | 58 35 | 22 11 | —— rep. | 440 80 | 18 24 12 |
| | | | Apparuere nùnc per Telescopium duæ Fixæ juxta Lunam, altera in antecedentia limbi obscuri, alia ad limbum Australem, è qua observata Luna, ut sequitur. | | |


Fig. 95
1676 July 22.
Fig. 96
1676 Augusti 9.
Fig. 97.
1676 Augusti 9.
Fig. 98
1676 Aug. 14
Fig. 99
1676 Aug. 21
Fig. 100
1676 Septemb. 16
Fig. 101
Fig. 102
1676 Octobr. 30
Fig. 103
1676 Nov. 10
Fig. 104
1677 Feb. 1
Fig. 105
Catal. Brit.
1677 Feb 27
Fig. 106
tecta
Fig. 107
1677 Febr. 28
Fig. 108.
Fig. 109
1677 Sept. 2
Fig. 110
1677 Sept. 7
Fig. 111
1677 Septem. 10
Fig 112
I. Senex sculpt
Lib. I. pag. 223

| ANNO CHRISTI 1677. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Micrometrum, cum Circuli partibus Respondentibus. Revol. Cent. | ' " | |
|---|---|---|---|---|---|---|
| ♂ Sept. 11 | 16 07 30 | 16 31 06 | * l —— | 2002 | = 9 59 | |
| | 16 12 50 | 36 26 | Rectam per Cuspides; superaverat 1 min. circiter —— | | | |
| | 14 02 | 37 38 | * l —— | 1979 | = 09 52 | |
| | 19 05 | 42 41 | * l —— | 2055 | = 10 15 | |
| | | | * z eodem mom. —— | 526 | = 04 20 | Vide Fig. 111. |
| | 25 14 | 48 50 | Lunæ Diameter —— | 6029 | = 30 04½ | |
| | 28 16 | 51 52 | —— rep. | 6030 | = 30 05 | |
| | | | *Stella Cancri* A, *mihi Anno* 1690 *ineunte in Leonis* 5° 29', 46', *Lat. Aust.* 5° 20' 34". | | | |
| | | | *Altitud.* ° ' — *Hor. supputat.* ' " — *Err. Horolog.* ' " | | | |
| ♂ 11 | 20 07 40 | Limbi | 22 15 — 20 31 13 — + 23 33 | | | |
| *vel* ☿ 12 | 10 00 | Solis in- | 22 35 — 33 44 — + 23 44 | | | |
| *mane.* | 12 40 | ferioris. | 22 55 — 36 19 — + 23 39 | | | |
| ☿ 12 | | | Juxta editas in Diario conjecturas, Lunæ limbus Austrinus 29am Leonis, prætereundo delibaret, paulò ante ejus ortum; limbus autem boreus, circa hor. 2 ½ matutinam, transire debet 28, infra 28am Leonis; 29æ locus tunc Leonis 17° 05', Latitudo 5° 43' Merid. 28æ Leonis 17° 36' cum Latitudine etiam Meridionali 4° 48', è quibus, Cœlo satis sereno, observata Luna ut sequitur. | | | |
| | 14 17 30 | 14 41 30 | 29ª à limbo obscuro (*Tub. long.*) —— | 3355 | = 16 44 | |
| | 23 14 | 47 14 | —— (*Tub. brev.*) —— rep. | 2440 | = 20 03 | |
| | 25 00 | 49 00 | 29ª A —— | 1212 | = 09 58 | |
| | 32 46 | 56 46 | 28ª à limbo (*Tubo longiore*) —— | 7017 | = 35 00 | Vide Fig. 112. |
| | 35 04 | 59 04 | 28ª in recta per Cuspides —— | | | |
| | 37 20 | 15 01 20 | 28ª à limbo (*Tubo breviore*) —— | 4241 | = 34 52 | |
| | 40 38 | 04 38 | —— rep. | 4272 | = 35 07 | |
| | 46 10 | 10 10 | —— (*Tubo longiore*) —— | 7168 | = 35 45 | |
| | 49 36 | 13 36 | —— (*Tubo breviore*) —— | 4405 | = 36 13 | |
| | 56 28 | 20 28 | z 28ª —— | 2158 | = 17 45 | |
| | 59 52 | 23 52 | 28ª à limbo —— | 4500 | = 37 00 | |
| | 15 11 23 | 35 23 | z 28ª —— | 1695 | = 13 56 | |
| | 12 44 | 36 44 | —— rep. | 1654 | = 13 36 | |
| | 15 22 | 39 22 | 28ª à limbo obscuro —— | 4817 | = 39 37 | |
| | 18 06 | 42 06 | —— rep. | 4908 | = 40 21 | |
| | 22 10 | 46 10 | z 28ª —— | 1280 | = 10 32 | |
| | 25 12 | 49 12 | —— rep. | 1212 | = 09 58 | |
| | 27 46 | 51 46 | 28ª à limbo obscuro —— | 5150 | = 42 20 | |
| | 31 13 | 55 13 | —— rep. | 5270 | = 43 20 | |
| | 36 24 | 16 00 24 | z 28ª —— | 831 | = 06 50 | |
| | 41 | 05 | Lunæ Diameter —— | 3612 | = 29::42 | |
| | 51 46 | 15 46 | Lunæ Diameter (*Long. Tub.*) —— | 6029 | = 30 04 | |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS | Distantiæ per Micrometrum, cum Circuli partibus Respondentibus. Revol. Cent. | ' " |
|---|---|---|---|---|---|
| ♃ Sept. 27 | | | Luna texerat 25<sup></sup>am Aquarii, circa Solis occasum, ujus ab ea Emersionem videre nòn potui, propter Crepusculi & Lunæ plenæ lucem; Fixæ lucis quartæ, locus Tychonicus Piscium 4° 56', Latitudo 4° 08' ad Boream; è qua post Emersionem observata Luna ut sequitur. | | |
| | 6 28 00 | 6 58 00 | Stella in recta cum Insula Majore & Ætna | | |
| | 31 08 | 7 01 08 | * *l* | 1057 | = 05 15 |
| | 32 54 | 02 54 | | 1291 | = 06 25 |
| | 37 44 | 07 44 | z * | 1420 | = 11 41 |
| | 41 16 | 11 16 | rep. | 1335 | = 10 58 |
| | 48 19 | 18 19 | * *l* | 2695 | = 13 26 |
| | 50 26 | 20 26 | Fixa transiit punctum intra Tubum | | |
| | 52 04 | 22 04 | Lunæ limbus verè Austrinus idem punctum tetigerit, & transeundo delibaverit, unde constat hor. 7 22' 04", Lunæ limbum Austrinum & Fixam eandem obtinuisse Declinationem. | | |
| | 7 08 56 | 7 38 56 | * *l* | 4650 | = 23 12 |
| | 34 51 | 8 04 51 | | 7015 | = 35 00 |
| | 38 | 08 | Lunæ Diameter | 6530 | = 32 34 |
| | 48 | 18 | Altâ eâ 31° rep. | 6530 | = 32 34 |
| ♀ 28 | 6 08 52 | | Lunæ alt. 20 ½ Diam. | 6484 | = 32 21 |
| | 26 ½ | | Altâ eâ 23° ½ rep. | 6495 | = 32 24 |
| | | | Altitud. ° ' \| Hor. suppus. h. ' " \| Err. Hor. ' " | | |
| ☽ Oct. 15 | 7 53 42 | Lucidæ Arietis. | 41 55 \| 08 28 04 \| + 34 22 | | |
| | 57 02 | | 42 25 \| 08 31 28 \| + 34 26 | | |
| ☿ 17 | | | Circa Meridiem, promovi Indices Horologii utriusque 20', fiet adeo utriusque error 15', æqualis scilicet dierum Æquationi; à 16 Martij præcedentis ad hoc tempus, nunquàm mutaveram nèc attigeram Indices Minutorum. | | |
| ☽ 22 | | | Juxta vulgatas in Kalendario prædictiones, Lunæ limbus Austrinus iret 26' circiter supra 9am Capricorni lucis sextæ, circa 8h ½ *p. m.* Fixæ locus Tychonicus, Aquarij 3° 35', Latitudo 3° 25' Sept. è qua observata Luna, ut sequitur. | | |
| | 7 18 25 | 7 33 30 | Lunæ Diameter | 6520 | = 32 31 |
| | 22 34 | 37 39 | Altâ eâ 19° rep. | 6523 | = 32 32 |
| | 24 42 | 39 47 | Lunæ Cuspis proxima à Stella | 7487 | = 37 21 |
| | 27 2 | 42 31 | Lunæ Cuspis vera à Stella | 7430 | = 37 04 |

Vide Fig. 113.

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| | | | *Erat enim pars exigua illustrata ultra Cuspidem veram, quantitate Diametri Jovis vel amplius; è qua præcedens capta fuerit Distantia.* | | | |
| | | | Part. per Mic. ' " | | | |
| ☽ Octo. 22 | 7 54 14 | 8 09 19 | Lunæ Cusp. vera à *a \| 6416 \| = 32 00 | | | |
| | 8 21 39 | 36 44 | Fixa prætergressa fuerit rectam per Cuspides, quantum Jovis est Diameter; vix amplius. | | | |
| | 24 37 | 39 42 | Stel. à linea per Cusp. \| 270 \| = 02 13 | | | |
| | 27 33 | 42 38 | Stella à limbo prox. \| 6440 \| = 32 07 | | | |
| | 33 14 | 48 19 | ——— rep. \| 6547 \| = 32 40 | | | |
| | 9 04 54 | 9 19 59 | ——— \| 7849 \| = 39 09 | | | *Vide Fig. 114.* |
| | 12 48 | 27 53 | ——— \| 4958 \| = 40 46 | | | |
| | 14 52 | 29 57 | ——— \| 5050 \| = 41 31 | | | |
| | | | Intereà ad investigandum Horologij Errorem, observaveram Altitudines. | | | |

| Tempora per Horologium h. ' " | | Altitud. ° ' | Hor. Suppus. h. ' " | Err. Horol. ' " |
|---|---|---|---|---|
| 8 09 33 | Lucidæ Pleiad. | 31 15 | 8 24 38 | + 15 05 |
| 11 42 | | 31 35 | 26 47 | + 15 05 |
| 13 52 | | 31 55 | 28 56 | + 15 04 |
| 16 00 | | 32 15 | 31 04 | + 15 04 |

| Anno | Horol. h. ' " | Altitud. h. ' " | Lunæ Distantiæ à Fixis | Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|
| ☿ 24 | 6 06 20 | 6 21 20 | Lunæ limbus remotus à prima Arietis——— | 1378 61 | 57 33 39 | |
| | 08 46 | 23 46 | ——— rep. | 1378 21 | 57 32 39 | |
| | 15 52 | 30 52 | Lunæ limbus proximus ab Ore Pegasi——— | 426 54 | 17 48 28 | |
| | 18 39 | 33 39 | ——— rep. | 426 58 | 17 48 34 | |
| | 27 08 | 42 08 | Lunæ limbus remotus à prima Arietis——— | 1375 04 | 57 24 42 | |
| | 29 20 | 44 20 | ——— rep. | 1374 68 | 57 23 46 | |
| | 33 50 | 48 50 | Prima Arietis ab Ore Pegasi——— | 1455 64 | 60 46 13 | ☽ in ♓ 1°, Lat. B. 4½. |
| | | | Part. per Mic. ' " | | | |
| | 51 10 | 8 06 10 | Lunæ Diameter——— \| 6490 \| = 32 22 | | | |
| | 57 33 | 12 33 | Altâ eâ 31 ½ gr. rep. \| 6505 \| = 32 27 | | | |
| ♃ 25 | 5 41 15 | 5 56 15 | Lunæ limb. prox. ab humero Aquarij præc. | 622 08 | 25 59 06 | |
| | 46 15 | 6 01 15 | ——— rep. | 622 92 | 26 01 12 | |
| | 50 20 | 05 20 | Lunæ (*in Nonagesimo*) limb. prox. à Markab. | 371 49 | 15 30 37 | ☽ in ♓ 15° Lat. B. 4. |
| | 53 10 | 08 10 | ——— rep. | 371 36 | 15 30 15 | |
| | 55 43 | 10 43 | Lunæ limbus præced. & proxim. ab Humero Aquarii præcedente | 624 61 | 26 05 25 | |
| | 57 39 | 12 39 | ——— rep. | 624 88 | 26 06 06 | |
| | 6 04 50 | 19 50 | Markab ab Humero Aquarij præcedente— | 743 64 | 31 04 04 | |
| | | | Part. per Mir. ' " | | | |
| | 22 42 | 37 42 | Lunæ Diameter——— \| 6459 \| = 32 13 | | | |
| | | | Deindè circa Hor. 1. *p. m. n.* Observata Occultatio sextæ Piscium, cujus locus Tychonicus, Piscium 18° 26′, Latitudo 4° 27′ Sept. habuit hæc Fixa Comitem revera Australiorem distantem ab ea (*Tubo brev.*) ——— \| 1150 \| = 09 27 | | | |

| | Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Part. per Mic. | ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|---|
| | ♃ Octo. 25 | 11 25 08 | 11 40 08 | 5ª Piscium à Confin. | 5508 | = 45 17 | | |
| | | 35 51 | 50 51 | ———————rep. | 4972 | = 40 53 | | |
| | | 49 18 | 12 04 18 | ———————iter. | 4145 | = 34 04 | | |
| | | 12 01 00 | 16 00 | 5ª Piscium in eadem Azimutha cum Australi parte & sequente Confinii. | | | | |
| Vide Fig. 115. | | 04 06 | 19 06 | Distetit à Confinio— | 3275 | = 26 56 | | |
| | | 12 30 | 27 30 | Lunæ alt. 16° Diam. | 6425 | = 32 03 | | |
| | | 22 36 | 37 36 | Stella à Confinio—— | 3563 | = 17 46 | | |
| | | 37 55 | 52 55 | ———————— | 1975 | = 09 51 | | |
| | | 45 26 | 13 00 26 | 5ª Piscium tecta, differentia declinationum ejus & limbi Lunæ Borei existente 950=7′ 49″, si minore Tubo facta fuerit Observatio, sin secus 4′ 45″, illud enim in Schedis notatum non invenio. | | | | |
| | | 47 09 | 02 09 | Comes ejus tegebatur. | | | | |
| | | | | Altitud. ° ' | Hor. supput. h. ' " | Err. Hor. ' " | | |
| | ♃ Nov. 1 | 6 28 42 | Lucidæ Arietis. | 36 16 | 6 43 34 | + 14 52 | | |
| | | 37 19 | | 37 35 | 52 12 | + 14 53 | | |
| | | 39 34 | | 37 55 | 54 23 | + 14 49 | | |
| | | 41 49 | | 38 15 | 56 35 | + 14 46 | | |
| | | | | *Deindè post mediam noctem sequentem observata Luna à decima nona Tauri, cujus locus Tychonicus Geminor. 20° 16′, Latitudo 2° 14′ Meridional. ut sequitur.* | | | | |
| | | | | | Part. per Mic. | ' " | | |
| | | 13 56 25 | 14 11 15 | Stella à limb. prox.— | 1970 | = 16 12 | | |
| Vide Fig. 116. | | 14 02 22 | 17 12 | ———————rep. | 2148 | = 17 40 | | |
| | | 15 13 56 | 15 28 48 | Stella à Confinio—— | 4514 | = 37 06 | | |
| | | 17 06 | 31 56 | Lunæ Diameter——— | 3642 | = 29 58 | | |
| | | 21 20 | 36 10 | Stella à Confinio— | 4795 | = 39 25 | | |
| | | 25 22 | 40 12 | z *.————— | 421 | = 3 28 | | |
| | | 29 10 | 44 00 | Stella à Confinio—— | 5104 | = 41 58 | | |
| | | | | Altitud. ° ' | Hor. supputat. h. ' " | Err. Horolog. ' " | | |
| | ♃ Dec. 20 | 7 53 14 | Lucidi pedis Gemin. | 33 25 | 7 48 45 | — 4 29 | | |
| | | 55 38 | | 33 45 | 50 58 | — 4 40 | | |
| | | 57 55 | | 34 05 | 53 13 | — 4 42 | | |
| | | 8 00 16 | | 34 25 | 55 28 | — 4 48 | | |
| | | 02 28 | | 34 45 | 57 43 | — 4 45 | | |
| | ☿ 26 | 8 24 45 | 8 17 07 | Lunæ limbus remotus à Castore——— | | | 628 86 | 26 16 04 |
| | | 27 43 | 20 05 | ———————————rep. | | | 628 62 | 26 15 28 |
| | | 35 18 | 27 40 | Lunæ limbus prox. à Cornu Tauri Boreo- | | | 227 72 | 09 30 45 |
| ☽ in ♊ 23°. Lat. Aust. 3. | | 39 06 | 31 28 | ———————————rep. | | | 228 16 | 09 31 52 |
| | | 43 05 | 35 27 | Lunæ limbus præc. & remot. à Castore— | | | 626 44 | 26 10 00 |
| | | 45 08 | 37 30 | ———————————rep. | | | 626 04 | 26 09 00 |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | | Distantia per Micrometrum, cum Circuli partibus Respondentibus. Part. per Mic. | ′ ″ | |
|---|---|---|---|---|---|---|---|
| | | | Altitud. ° ′ — Hor. Supp. h. ′ ″ — Err. Horolog. ′ ″ | | | | |
| ♄ Dec. 29 | 7 13 28 | | 32 45 — 7 04 50 — — 8 38 | | | | |
| | 15 39 | Lucidi pedis Gemin. | 33 05 — 07 04 — — 8 35 | | | | |
| | 17 50 | | 33 25 — 09 18 — — 8 32 | | | | |
| | 20 09 | | 33 45 — 11 38 — — 8 31 | | | | |
| | 22 27 | | 34 05 — 13 52 — — 8 35 | | | | |
| | 29 15 | 7 20 40 | Lunæ Diameter——— | | 5942 | = 29 38 | |
| | 44 30 | 35 55 | Altâ eâ 21°——— rep. | | 5940 | = 29 38 | |
| Anno Christi MDCLXXVIII. | | | | | | | |
| | | | Observata Luna à duodecima Libræ, lucis quartæ, cujus locus Tychonicus, Scorpij 26° 08′, Latit. 0° 16′ Sept. ut sequitur. | | | | |
| ☽ Jan. 7 | 18 07 18 | 17 56 18 | * l —(Tub. Breviore)— | | 4148 | = 34 06 | |
| | 09 40 | 58 40 | * l ——— | | 4107 | = 33 46 | |
| | 10 52 | 59 52 | Lunæ Diameter——— | | 3882 | = 31 56 | |
| | 18 02 | 18 07 02 | * l ——— | | 3970 | = 32 39 | |
| | 21 16 | 10 16 | * l ——— | | 3912 | = 32 10 | *Vide Fig.* 117. |
| | 35 16 | 24 16 | Lunæ Diameter (*Long. Tubo*) | | 6440 | = 32 08 | |
| | 38 56 | 27 56 | * l ——— | | 6070 | = 30 17 | |
| | 47 32 | 36 32 | * l ——— | | 5971 | = 29 47 | |
| | 50 40 | 39 40 | * A (*Tub. Brev.*) ad dextr. | | 413 | = 3 24 | |
| | 57 30 | 46 30 | * l ——— | | 5940 | = 29 38 | |
| | 19 03 54 | 52 54 | { * l ——— | | 5950 | = 29 41 | |
| | | | { * A, ad sinistram——— | | 413 | = 3 24 | |
| | 6 54 | 55 54 | * l ——— | | 5970 | = 29 47 | |
| | 10 52 | 59 52 | * l ——— | | 6042 | = 30 08 | |
| | 13 34 | 19 02 34 | { * l ——— | | 6061 | = 30 14 | |
| | | | { * A, ad sinistram——— | | 1090 | = 8 58 | |
| | 18 00 | 7 00 | * l ——— | | 6170 | = 30 47 | |
| | 20 50 | 9 50 | { * l ——— | | 6180 | = 30 50 | |
| | | | { * A ——— | | 1555 | = 12 47 | |
| | 24 02 | 13 02 | * l ——— | | 6310 | = 31 29 | |
| | 28 32 | 17 32 | Lunæ altæ 18° Diameter.— | | 6430 | = 32 04 | |
| | | | Altitud. ° ′ — Hor. supp. h. ′ ″ — Err. Hor. ′ ″ | *Distantia per lineas Diagonales.* ° ′ ″ | *Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ′ ″ | |
| ♂ 8 | 6 36 38 | | 31 55 — 6 25 35 — — 11 03 | | | | |
| | 38 42 | Pollucis | 32 15 — 27 45 — — 10 57 | | | | |
| | 40 56 | | 32 35 — 29 54 — — 11 03 | | | | |
| | 43 04 | | 32 55 — 32 02 — — 11 01 | | | | |
| ♀ 18 | 6 26 38 | 6 12 16 | Lunæ limb. remot. a Palilicio | 37 38 45 | 901 40 | 37 38 30 | |
| | 30 48 | 16 26 | ——— rep. | 37 37 05 | 900 71 | 37 36 45 | |
| | 43 20 | 28 58 | ☽ⁱ limb. prox. à Mirac. Andr. | 24 19 35 | 582 48 | 24 19 50 | |
| | 46 40 | 32 18 | ——— rep. | 24 19 40 | 582 55 | 24 20 00 | ☽ in ♈ 28°; lat. B. $1\frac{1}{4}$. |
| | 51 27 | 38 05 | Lunæ limb. remot. à Palilicio | 37 28 20 | 897 29 | 37 28 15 | |
| | 54 15 | 39 53 | ——— rep. | 37 26 55 | 896 73 | 37 26 51 | |
| | 7 02 07 | 47 45 | Palilicium à Mirach ——— | 49 27 00 | 1184 23 | 49 27 15 | |
| | 10 09 36 | 9 55 14 | ☽ⁱ alt. $19°\frac{1}{2}$ Diameter— } Part. per Mic. 6319 = ′ ″ 31 31 | | | | |

| Anno Christi 1678 Styl. Vet. | Tempora per Horologium oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | Altitud. ° ′ ; Hor. supp. h. ′ ″ ; Err. Horolog. ′ ″ | | | |
| ♀ Jan. 18 | 10 22 10 | Lucidæ in Collo Leonis. | 36 15 ; 10 07 48 ; — 14 22 | | | |
| | 24 19 | | 36 35 ; 09 58 ; — 14 21 | | | |
| | 26 32 | | 36 55 ; 12 09 ; — 14 23 | | | |
| | 28 44 | | 37 15 ; 14 20 ; — 14 24 | | | |
| ☽ 21 | 7 49 59 | 7 41 29 | Lunæ lim. præc. rem. à Polluce | 42 20 05 | 1013 91 | 42 20 22 |
| | 52 19 | 43 49 | ——— rep. | 42 19 10 | 1013 54 | 42 19 27 |
| | 56 48 | 48 18 | Lunæ limbus remot. ab humero Orionis præcedente | 17 39 00 | 422 86 | 17 39 14 |
| | 59 43 | 51 13 | ——— rep. | 17 38 45 | 422 61 | 17 38 36 |
| | 8 03 17 | 54 47 | Lunæ limb. remot. à Polluce | 42 15 20 | 1011 99 | 42 15 34 |
| | 05 30 | 57 00 | ——— rep. | 42 14 40 | 1011 72 | 42 14 54 |
| | 07 35 | 59 05 | ——— iter. | 42 13 50 | 1011 43 | 42 14 10 |
| | | | Altitud. ° ′ ; Hor. supput. h. ′ ″ ; Err. Horolog ′ ″ | | | |
| | 9 57 56 | Lucidæ in lumbis Leonis. | 34 36 ; 9 49 32 ; — 8 24 | | | |
| | 59 54 | | 34 56 ; 51 36 ; — 8 18 | | | |
| | 10 02 17 | | 35 16 ; 53 46 ; — 8 31 | | | |
| | 04 18 | | 35 36 ; 55 56 ; — 8 22 | | | |
| ♂ 22 | 5 15 51 | 5 07 36 | ☽* alt. 43° Diam. — ; Part. per Mic. 6055 = 30′ 12″ | | | |
| | 19 23 | 11 08 | ——— rep. 6055 = 30 12 | | | |
| | 7 03 00 | 6 54 45 | Lunæ limb. remot. à Castore | 29 25 30 | 704 58 | 29 25 52 |
| | 6 26 | 58 11 | ——— rep. | 29 24 50 | 704 26 | 29 25 05 |
| | 14 55 | 7 06 40 | Lunæ limbus remot. ab humer. Orionis seq. ——— | 14 17 40 | 342 36 | 14 17 42 |
| | 18 13 | 09 58 | ——— rep. | 14 17 10 | 342 16 | 14 17 12 |
| | 26 06 | 17 51 | Lunæ lim. præc. rem. à Castore | 29 18 30 | 701 69 | 29 18 39 |
| | 28 44 | 20 29 | ——— rep. | 29 17 40 | 701 36 | 29 17 50 |
| | | | Altitud. ° ′ ; Hor. supput. h. ′ ″ ; Err. Horolog. ′ ″ | | | |
| | 8 43 19 | Lucidæ in juba Leonis. | 31 35 ; 8 35 01 ; — 8 18 | | | |
| | 45 28 | | 31 55 ; 37 08 ; — 8 20 | | | |
| | 47 36 | | 32 15 ; 39 19 ; — 8 17 | | | |
| | 49 45 | | 32 35 ; 41 28 ; — 8 17 | | | |
| ♄ Feb. 17 | | | Cœlum ingruente nocte nubibus densissimis erat subductum, ut Occultationem Saturni, circa horam septimam, à Luna factam, videre non potuerim: Hora nona nubes dissipari cœperunt, tunc pro correctione Horologij investiganda, Altitudines observatæ | | | |
| | | | Altitud. ° ′ ; Hor. supput. h. ′ ″ ; Err. Horolog. ′ ″ | | | |
| | 10 05 46 | Arcturi | 22 44 ; 9 58 54 ; — 6 52 | | | |
| | 10 12 | | 23 24 ; 10 03 12 ; — 7 00 | | | |
| | 12 13 | | 23 44 ; 5 21 ; — 6 52 | | | |

☽ in ♊ 7°½, Lat. Aust. 1½.

☽ in ♊ 19°½, Lat. Aust. 2½.

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochlea Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | Par. per Mic. ′ ″ | | | |
| ☉ Feb. 17 | 9 52 20 | 9 45 24 | ♄ˢ. à limbo Lunæ lucid. } 4670 = 38 24 | | | |
| | 10 22 04 | 10 15 08 | ——— rep. 6303 = 51 50 | | | |
| | 40 46 | 33 50 | Lunæ Diamet. 6145 = 30 39 | | | |
| | | | *Parisiis* in Observatorio Regio simul notârunt Domini *Cassinus*, *Picartus*, *Roemerus*, *De la Hire*, & *Fontenay* Jesuita, ut sequitur. | | | |
| | | Tempora vera. h. ′ ″ | | | | |
| | | 7 20 50 | Limbus Orientalis Lunæ tegere cœpit Ansam occidentalem Saturni. | | | |
| | | 22 39 | Totus Saturnus tectus erat. | | | |
| | | 8 28 50 | Ansa occidentalis Saturni emergebat. | | | |
| | | 30 00 | Omnino emerserat Saturnus. | | | |
| | | | Immersio Saturni erat inter Aristarchum & Cardanum, Emersio inter Messalam & Berosum. | | | |
| ☽ 18 | 6 58 49 | 6 47 09 | Lunæ limbus remotus & præced. à Polluce ——} | 34 34 30 | 827 81 | 34 34 14 |
| | 7 00 10 | 48 30 | ——— rep. | 34 33 30 | 827 42 | 34 33 15 |
| | 5 24 | 53 44 | Lunæ limbus remotus ab Humero Orionis seq. ——} | 15 57 05 | 382 13 | 15 57 18 |
| | 07 46 | 56 06 | ——— rep. | 15 56 35 | 381 88 | 15 56 40 |
| | 12 35 | 7 00 55 | Lunæ limb. remot. à Polluce | 34 29 30 | 825 82 | 34 29 31 |
| | 14 09 | 02 29 | ——— rep. | 34 28 35 | 825 59 | 34 28 57 |
| | | | Altitud. ° ′ \| Hor. supputat. h. ′ ″ \| Err. Horolog. ′ ″ | | | |
| ♀ 22 vel ♄ 23 mane. | 20 54 12 | Limbi Solis inferioris. } | 15 35 \| 20 18 14 \| — 35 58 | | | |
| | 55 26 | | 15 45 \| 19 29 \| — 35 55 | | | |
| | 57 56 | | 16 05 \| 22 00 \| — 35 56 | | | |
| | 59 16 | | 16 15 \| 23 17 \| — 35 59 | | | |
| | | | Inter hanc ergo & vesperam Diei 17, Horologium acquisiverat 29 Min. Hor. adeoquè horis 21 elapsis, inter Observationes Diei 18, & præcedentem examinationem, lucraverit 4′ 40″, unde ejus errorem in Observationibus noctis 18, statui 11′ 40″. | | | |

*Vide Fig. 118.*

☽ in ♊ 15½. Lat. Aust. 2½.

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ' | Hor. supp. h. ' " | Err. Horolog. ' " | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|---|---|
| ☉ Junij 16 vel | | | Post mediam noctem sequentem vel 17 mane, secundum vulgi computum, Quadrante novo, *Regiæ Societatis à meipso dispunctato*, ad investigandum Horologij Errorem sequentes captæ à Vertice Distantiæ. | | | | | | |
| ☽ 17 mane. | 19 55 46 | Sol. limbi inferioris | | 54 20 | 19 55 36 | — 0 10 | | | |
| | 57 56 | | | 54 00 | 57 45 | — 0 11 | | | |
| | 20 01 10 | | | 53 30 | 20 01 00 | — 0 10 | | | |
| | 03 24 | | | 53 10 | 03 10 | — 0 14 | | | |
| | 05 28 | | | 52 50 | 05 20 | — 0 08 | | | |
| ☽ 17 | 10 10 03 | 10 09 52 | Lunæ limbus remotus à secunda in Fronte Scorpii δ | | | | 44 45 25 | 1071 98 | 44 45 54 |
| | 13 41 | 13 30 | rep. | | | | 44 43 55 | 1071 37 | 44 44 21 |
| | 18 41 | 18 30 | Lunæ limbus remotus ab Arcturo :: | | | | 35 10 35 | 842 43 | 35 11 00 |
| | 21 27 | 21 16 | rep. | | | | 35 10 35 | 842 26 | 35 10 35 |
| | 28 17 | 28 06 | Lunæ limbus remotus à media in Fronte Scorpii δ, rep. | | | | 44 37 25 | 1068 74 | 44 37 45 |
| | 30 28 | 30 18 | iterum. | | | | 44 36 25 | 1068 38 | 44 36 39 |
| ♃ 27 | 4 11 58 | Sol. limbi inferioris | | 56 00 | 4 11 26 | — 0 32 | | | |
| | 15 08 | | | 56 30 | 14 40 | — 0 08 | | | |
| | 18 24 | | | 57 00 | 17 54 | — 0 30 | | | |
| | 21 30 | | | 57 30 | 21 06 | — 0 24 | | | |
| | 24 50 | | | 58 0½ | 24 21 | — 0 29 | | | |
| | | | Eadem nocte observata fuit Lunæ transiens infra 22am Aquarij, cujus tunc locus *Tychonicus* Piscium 4° 57', Lat. 4° 8' Bor, ut sequitur. | | | | Part. per Micr. | ' " | |
| | 11 00 32 | 11 00 03 | Lunæ Diameter | | | | 6593 | = 32 53 | |
| | 13 17 | 12 48 | Stella à Confinio | | | | 5187 | = 25 52 | |
| | 20 00 | 19 31 | Differ. declin. limbi Lunæ borei & Stellæ | | | | 1221 | = 10 02 | |
| | 23 00 | 22 31 | rep. | | | | 1141 | = 09 23 | |
| | 25 52 | 25 23 | Stella à limbo Lunæ remot. | | | | 7400 | = 60 50 | |
| | 31 00 | 30 31 | Differ. declin. rep. | | | | 1144 | = 09 24 | |
| ♀ Julij 12 mane. | | | Indices minutorum utriusq; Horologij promovi 6', & ad eosdem scrupulos composui, eo concilio ut *tempora* quam proximè *media* in posterum ostendant. | | | | | | |

☽ in ♎ 13°¼ Lat. Aust. 3½.

Vide Fig. 119.

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ / Hora supp. h. ′ ″ / Err. Horolog. ′ ″ | | | | |
| ☽ Julij 15 | 4 02 44 | | 56 00 / 3 56 41 / — 6 03 | | | | |
| | 04 46 | Sol. limbi inferioris | 56 20 / 58 52 / — 5 54 | | | | |
| | 07 03 | | 56 40 / 4 01 03 / — 6 00 | | | | |
| | 09 08 | | 57 00 / 03 14 / — 5 54 | | | | |
| | 11 26 | | 57 20 / 05 24 / — 6 02 | | | | |
| ♀ 17 | 9 28 17 | 9 22 30 | Lunæ limbus remot. à media in Fronte Scorpii ♂ | 11 35 05 | 277 58 | 11 35 36 | |
| | 32 53 | 27 06 | rep. | 11 33 35 | 276 93 | 11 34 00 | |
| | 43 23 | 37 36 | Lunæ limbus prox. à clara in Collo Serpentis | 25 41 40 | 615 40 | 25 42 20 | ☽ in ♏ 17° Lat. Aust. 04. |
| | 45 58 | 40 11 | rep. | 25 41 10 | 615 24 | 25 41 56 | |
| | 53 10 | 47 23 | Lunæ limb. præced. à Scorp. ♂ | 15 25 05 | 273 50 | 11 25 22 | |
| | | | Dist. à Vert. ° ′ / Hor. supp. h. ′ ″ / Err. Horolog. ′ ″ | | | | |
| ☉ 21 vel ☽ 22 mane. | 20 08 04 | | 57 20 / 20 02 32 / — 5 32 | | | | |
| | 10 20 | Sol. limbi inferioris | 57 00 / 04 45 / — 5 35 | | | | |
| | 14 44 | | 56 20 / 09 08 / — 5 36 | | | | |
| | 16 50 | | 56 00 / 11 21 / — 5 29 | | | | |
| ☽ 22 | | | Observata Luna à 3ª Capricorni lucis 3ª, cujus *Tychoni* locus nunc Capricorni 29° 36′, Lat. 4° 41′ Sept. | Part. per Micr. | ′ ″ | | |
| | 13 39 24 | ::13 33 34 | Lunæ limbus prox. à Stella | 3309 | = 16 31 | | |
| | 48 25 | 42 55 | rep. | 3535 | = 17 38 | | |
| | 51 56 | 46 26 | Lunæ Diameter | 6688 | = 33 22 | | |
| | 58 18 | 52 48 | A * | 3490 | = 28 42 | | *Vide Fig. 120.* |
| | 14 12 00 | 14 06 30 | A * | 3035 | = 24 57 | | |
| | | | l * | 4709 | = 23 29 | | |
| | 19 22 | 13 52 | A * | 2597 | = 21 22 | | |
| | | | l * | 5193 | = 25 54 | | |
| | 28 06 | 22 36 | A * | 2089 | = 17 10 | | |
| | | | l * | 5798 | = 28 55 | | |
| | 37 56 | 32 26 | Lunæ altæ 10° Diameter | 6660 | = 33 13 | | |
| ♄ 27 | | | Circa mediam noctem sequentem, transeunte Luna infra 15am Tauri (cujus tùnc locus *Tychonicus* Gem. 3° 59′, Lat. 2° 36′ ½ Merid.) me tùnc ægroto, tubo pedum sedecim rogatus observavit D. *Halleius*, | | | | |
| | 11 11 56 | | Stella à limbo proximo | 1293 | = 6 27 | | |
| | | | Tùnc erat Fixa paululùm prætergressa lineam Cuspidum, ponit ille tempus per horologium quo in ea fuit 11h 11′ 30″, sequente mane pro correctione Horologij observatæ Distantiæ. | | | | |

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS: | Dist. à Vert. ° " | Hora supput. h. ' " | Err. Horolog. ' " | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|---|---|
| ♄ Julij 27 | 21 04 48 | Limbi Solis superioris | | 57 41 | | | | | |
| | 13 04 | | | 56 40 | | | | | |
| Sept. 14 | 3 34 30 | Sol. limbi inferioris | | 70 00 | 3 40 26 | + 5 46 | | | |
| | 38 28 | | | 70 00 | 44 20 | + 5 42 | | | |
| Vide Fig. 121. | | | Vespera sequente Lunæ appulsum ad 11am Sagittarii (cujus locus *Tychonicus* Capricorni 15° 00'. Lat. 4° 17' Sept.) nec non & occultationem Telescopicæ vicinæ Australioris (me tunc Rure, valetudinis recuperandæ causâ, agente,) in Observatorio observavit D. *Halleius*, sic, | | | | Par. per Micr. | ' " | |
| | | | 11a Sagittarii à Telescopica | | | | | | |
| | 7 08 42 | 7 14 34 | Telescopica tecta paulò Australior Centro Lunæ. | | | | 3320 | = 26 29 | |
| | 21 00 | :: 25 52 | Lunæ Diameter —— | | | | 6473 | = 32 17 | |
| | 27 22 | 33 14 | 11a Sagittarii à Cuspide boreo —— | | | | 1936 | = 9 40 | |
| | 32 46 | 38 38 | —— rep. | | | | 1540 | = 7 41 | |
| | 42 54 | 48 48 | —— | | | | 919 | = 4 35 | |
| | 47 08 | 53 00 | Stella in recta per Cuspides à borea —— | | | | 788 | = 3 56 | |
| | 54 34 | 8 00 24 | Stella à limbo proximo —— | | | | 738 | = 3 41 | |
| | | 33 23 | Lunæ limbus remotus ab Austral. Cornu Capricorni —— | | | | 14 33 50 | 348 85 | 14 34 00 |
| | | 46 24 | —— rep. | | | | 14 30 40 | 347 55 | 14 30 45 |
| Sept. 28 | 17 53 04 | 18 03 08 | Lunæ limbus rem. à Palilicio | | | | 59 58 15 | 1436 44 | 59 58 06 |
| | 56 14 | 06 18 | —— rep. | | | | 59 59 10 | 1436 83 | 59 59 10 |
| | 18 06 53 | 16 57 | —— | | | | 60 03 10 | 1438 47 | 60 03 10 |
| | 11 51 | 21 55 | —— | | | | 60 04 50 | 1439 18 | 60 04 57 |
| | 14 23 | 24 27 | —— | | | | 60 05 30 | 1439 47 | 60 05 40 |
| | 16 55 | 26 59 | | | | | 60 06 35 | 1439 94 | 60 06 52 |
| | 29 54 | 40 58 | (*Orto Sole*) Lunæ limb. remot. à Palilicio —— | | | | 60 10 40 | 1441 54 | 60 10 52 |
| | 37 46 | 47 50 | —— | | | | 60 13 55 | 1442 85 | 60 14 09 |
| | | | D. Halleius *observavit, me Rure, valetudinis causâ, agente.* | | | | | | |

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Sept. 28 | 18 45 14 | 18 55 18 | Stella disparuit potiùs ob nubeculas quàm diei lucem. | | | | |
| | | | Dist. à Vert. ° ′ — Temp. supp. h. ′ ″ — Err. Horol. ′ ″ | | | | |
| | 20 57 54 | lim. ☉ sup. | 68 20 — 9 07 58 — +10 04 | | | | |
| ♄ Oct. 12 | 3 06 22 | lim. ☉ inf. | 76 00 — 3 16 35 — +10 13 | | | | |
| | 10 51 | — super. | 76 00 | | | | |
| | 14 31 | ——— | 77 00 | | | | |
| | 22 38 | ——— inf. | 78 00 — 3 33 05 — +10 27 | | | | |
| | 30 42 | ——— | 79 00 | | | | |
| | 38 35 | ——— | 80 00 — 3 48 51 — +10 16 | | | | |
| ♂ 15 | 7 23 53 | 7 34 07 | Lunæ limb. prox. ab austr. Cornu Capricorni β —— | 38 04 30 | 911 82 | 38 04 33 | |
| | 28 25 | 38 33 | à seq. contig. in Cornu bor. | 38 21 20 | 918 60 | 38 21 33 | |
| | 35 55 | 46 09 | ab Aquilâ —— | 46 07 10 | 1104 40 | 46 07 08 | |
| | 39 03 | 49 17 | ———— rep. | 46 08 25 | 1104 99 | 46 08 22 | |
| | 44 43 | 54 57 | ☽ᵃ lim. rem. à lucidâ Arietis – | 55 10 50 | 1321 54 | 55 11 00 | |
| | 51 17 | 8 01 31 | à secundâ Arietis | 51 26 05 | 1231 80 | 51 26 22 | |
| | | | Par. per Mic. ′ ″ — ☽ᵃ Diam. *bis* 6623 =33 02 | | | | |
| | 8 21 07 | 31 21 | Lunæ limb. lucid. ab Aquilæ α | 46 22 50 | 1110 62 | 46 22 42 | |
| | 26 35 | 36 48 | remot. à lucida Ariet. | 54 52 10 | 1313 91 | 54 52 00 | |
| | | | D. Halleius *etiam observavit cum servis meis, me adhuc valetudinario.* | | | | |
| ☿ 16 | | | Observata Luna à 7ᵃ Piscium, cujus locus *Tychonicus* Piscium 21° 10′, Lat. 3° 25′ Sept. lucis 4ᵗᵃ ut sequitur. | Part. per Mic. | ′ ″ | | |
| | 6 13 41 | 6 23 52 | Lunæ limb. proximus à Stella | 3663 | = 18 16 | | |
| | 17 07 | 27 18 | Lunæ Diameter ———— | 6623 | = 33 02 | | |
| | 7 00 54 | 7 11 05 | l ✱ ———— | 3105 | = 25 32 | | |
| | 08 52 | 19 03 | l ✱ —(*long. Tubo*)— | 5441 | = 27 08 | | |
| | | | | Revol. Cent. | ° ′ ″ | ° ′ ″ | |
| | 8 41 45 | 8 52 00 | Lunæ lim. prox. à Mark. Peg. | 16 47 10 | 402 08 | 16 47 13 | |
| | 49 30 | 59 46 | rem. à lucid. Ariet. | 40 24 20 | 967 56 | 40 24 12 | |
| | 56 51 | 9 07 07 | prox. à Markab — | 16 48 10 | 402 60 | 16 48 27 | |
| | 9 02 30 | 12 46 | rem. à lucid. Ariet. | 40 18 20 | 965 15 | 40 18 10 | ☽ in ♓ 23°; Lat. Bor. 3. |
| | 04 57 | 15 13 | ———— rep. | 40 17 20 | 964 80 | 40 17 18 | |
| | 08 35 | 18 51 | ———— iter. | 40 15 30 | 964 04 | 40 15 22 | |
| ♀ 18 | 6 55 02 | 7 05 20 | Lunæ alt. 25° Diam. — Par. per Mic. 6599 =32 55 | | | | |
| | 7 01 15 | 11 33 | ——— rep. 6609 =32 58 | | | | |
| | | | Dist. à Vert. ° ′ — Hor. suppos. h. ′ ″ — Err. Horol. ′ ″ | | | | |
| | 18 34 | lucidæ Arietis. | 55 30 — 7 28 52 — +10 18 | | | | |
| | 25 04 | | 54 30 — 35 21 — +10 17 | | | | |
| | 28 16 | | 54 00 — 38 37 — +10 21 | | | | |
| | 34 52 | | 53 00 — 45 09 — +10 17 | | | | |

| ANNO CHRISTI 1678. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, Revol. Cent. | cum Circuli partibus Respondentibus. ° ′ ″ |
|---|---|---|---|---|---|---|
| ♀ Oct. 18 | 8 57 55 | 9 08 13 | Lunæ limbus proximus à Markab | 37 55 15 | 908 00 | 37 55 07 |
| | 9 00 21 | 10 39 | ——— rep. | 37 55 55 | 908 25 | 37 55 44 |
| | 06 35 | 16 53 | remotus à lucid. Ariet. | 14 07 00 | 338 10 | 14 07 05 |
| | 08 38 | 18 56 | ——— rep. | 14 06 15 | 337 79 | 14 06 19 |
| | 13 56 | 24 14 | proximus à Markab — | 38 00 45 | 910 28 | 38 00 42 |
| | 16 24 | 26 42 | *in Nonagesimo* — rep. | 38 02 20 | 910 85 | 38 02 08 |
| | 20 20 | 30 38 | remotus à Palilicio — | 42 50 45 | 1026 05 | 42 50 50 |
| | 21 56 | 32 14 | ——— rep. | 42 49 55 | 1025 72 | 42 50 00 |
| | 25 19 | 35 37 | remot. à lucid. Plejad. | 32 48 20 | 785 38 | 32 48 24 |
| | 27 05 | 37 23 | ——— rep. | 32 47 30 | 785 03 | 32 47 41 |

☽ in ♈ 23°. Lat. Bor. 0½.

♄ 19

## *Eclipsis Lunæ Totalis, Observata Octobris* 19, 1678.

COElum toto hoc Die adeò densis nubibus plerunq; subductum erat, ut nèc opportunitatem Solis Altitudines captandi, pro Correctione Horologij investigandâ, nec spes fere reliquas habuerim utilissimum hoc Phænomenon observitandi; ex insperato tamèn, paulo ante Solis Occasum, nubes dissipari cœperunt,& brevi posteà vento boreali in Australem Horizontis partem actæ, evanuere, nullis remanentibus è quibus turbatum fore Observationis processum metuerim.

Hisce Observationibus peragendis sociam ultrò promisserat operam D. *Halleius*; aderat ille pridie, meque in Distantiis Lunæ à Fixis vespera præcedente captis sedulus adjuvaverat. Accessit & D. *Perkinsius* Mathefeos peritissimus, nèc otiosus spectator.

Hora 4, 50′, Sole nondùm occaso, Lunæ limbus superior nubibus emersit Horizonti ab Oriente impendentibus; tùnc cœpimus ipsius captare Altitudines, Refractionum gratia Lunarium, quibus investigandis; vix commodiorem dari posse opportunitatem præsenseram: has iteravimus in unoquoq; Semigradu Altitudinis, donèc limbus ejus inferior altus erat 5°. notato cujuscunque Observationis momento diligentèr, ope Horologij Oscillatorij, (ut videre erit sub capite Refractionum;) deindè observavimus per quas Maculas faciei Lunaris Parallelus Declinationis inciderit, bisq; Lunæ cepimus Diametrum.

Jam instabat hora sexta, propterea nè Eclipsis citiùs forsan quàm expectaveramus, ingressuræ Initium nos elaberetur, partitis prout inter nos convenerat adjutoribus, in domicilium Sextantis, cum illorum parte necessaria & ministro meo *T. Fabro*, se recepit Dominus *Halleius*, ut per Instrumenti Telescopia, (præstantissima quæ sunt, septemque pedes longa,) Umbræ ad Maculas notabiliores appulsus, aliasque Phases præcipuas, necnon & quoties daretur opportunitas, Lunæ à Fixis quibusdam Distantias observitaret; me interea cum *Perkinsio* longioribus Tubis ad easdem Phases, in Camera superiore Observatorii, attendentibus.

Paulo ante Initium, nubes iterùm, sed tenues & translucidæ, Lunam vexare cœperunt; è quibus non nisi brevibus intervallis ante Occultationem *Lacus Nigri Majoris* liberata extiterit, multum hæ obfuere accuratæ temporum determinationi, quando umbræ limbus maculas attigerit; sed aliud mihi accessit incommodum, ob oculorum aciem,gravioribus morbis debilitatam,à quibus vix tum convalueram; adeò Lunæ plenæ nimius fulgor visum perstringebat, ut languidiores apparerent & confusæ Maculæ, essetq; necessarium aliqua peracta observatione oculum, ad vires ejus reficiendas, aliquandiu ante novam faciendam à Telescopio abstrahere: Sed huic mox remedium inveni, interposito adeò inter oculum & Lunæ partem lucidam Micrometro, ut hanc ferè totam contegeret: quo facto nihil exinde detrimenti percepi.

Post Occultationem *Lacus Nigri Majoris*, raro nubibus turbati fuimus, sequentes quamobrem Observationes præcedentibus nonnihil certiores existimo.

Hora sexta Parallelus Declinationis transibat, per Montem Climacem & partem Boream Mæotidis.

Iterùm per Austrinum limbum Mæotidis, & medium Sinus Sirbonis.

Per Byzantium & punctum notatum infra Maræotida.

| Anno Christi 1678. Styl. Vet. | Tempora per Horolog. Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNARIS ECLIPSIS. |
|---|---|---|---|
| Oct. 19 | 5 59 00 | 6 09 06 | Lunæ altæ gradus 11 Diameter —— Part. per Micr. 6525 = 32′ 33″ |
| | 6 03 26 | 13 32 | rep. 6527 = 32 34 |
| | 21 50 | 31 56 | Penumbra crassà juxta Maræotida, |
| | 24 30 | 34 36 | Eclipsis in limbo Lunæ satis sensibilis, Initium ergò consideratis etiàm Phasibus sequentibus unum ante minutum pono, vel 6h 33′ 36″. |
| | 32 16 | 42 22 | Quantum per nubes rariusculas potui conjicere Porphyrites totus tectus erat. |
| | 50 52 | 7 00 58 | Corsica tota tecta fuit, |
| | 53 50 | 03 56 | Lacus Niger Major disparuit forsàn ob nubeculas. |
| | 58 44 | 08 50 | Umbra transit per medium Horminium. |
| | 59 10 | 09 16 | per Byzantium. |
| | 7 03 58 | 14 04 | per Confinium lacus Bycis. |
| | 08 52 | 18 58 | per limbum primum Corocondometidis. |
| | 13 32 | 23 38 | ad limbum primum Mæotidis. |
| | 15 10 | 25 16 | ad limbum primum Insulæ Majoris. |
| | 17 32 | 27 38 | Mæotis tota tecta. |
| | 21 28 | 31 34 | Totalis Immersio. |
| | 8 18 | 8 28 | Tres circa lunam Fixas vidimus ut in figura sitas, quarum, |
| | 34 30 | 44 36 | *b* exigua videri desiit. |
| | 41 48 | 51 54 | *d* lucidior occultata ad montem Alabastrinum. |
| | | | Tertiam *c*, Luna præteriit illibatam. |
| | 9 00 02 | 9 10 08 | Dubius Exitus. |
| | 02 40 | 12 46 | Emersio certissima. |
| | 04 30 | 14 36 | Maræotis retecta. |
| | 10 30 | 20 36 | Umbra per mediam Porphyriten. |
| | 12 56 | 23 02 | per Montem Cataracten. |
| | 22 36 | 32 42 | Sina emersit. |
| | 28 06 | 38 12 | Lacus Niger Major. |
| | 38 40 | 48 46 | Byzantij limbus posterior. |
| | 40 00 | 50 06 | Horminius totus. |
| | 44 12 | 54 18 | Macra tota. |
| | 46 56 | 57 02 | Hercules totus. |
| | 50 30 | 10 00 36 | Limbus postremus Corocondometidis. |
| | 57 26 | 07 32 | Mæotis tota. |
| | 10 00 04 | 10 10 | Finis dubius. |
| | 01 00 | 11 06 | Umbra certe exierat infra Mæotiden ad gr. 300 limbi exterioris Heveliani. Finem ergò pono tempore intermedio vèl 10h 10′ 38″. |
| | 04 00 | 14 06 | Umbra vera exierat etiam nudis oculis. |
| | 08 06 | 18 12 | Lunæ altæ 45° ½ Diameter —— Part. per Micr. 6574 = 32′ 48″ |
| | | | *Ejusdem Defectus Observationes habitæ à D.* Halleio *&* Fabro *meo per Telescopia supra Sextantem.* |
| | 6 12 40 | 6 22 46 | Penumbra sensibilis. |
| | 21 58 | 32 04 | Lunæ limbus remotus à Jove 41° 30′ 30″ Revol. Cent. 994 06 41° 30′ 41″ |
| | 23 33 | 33 39 | Initium certissimum. |
| | 33 55 | 44 01 | Porphyrites cœpit obscurari. |
| | 45 29 | 55 35 | Umbra tetigit Nucleum Sinæ. |
| | 46 48 | 56 54 | Ultimus limbus Sinæ tectus. |
| | 47 02 | 57 08 | Mæsogeus tectus. |
| | 7 02 25 | 7 12 31 | Insula Apollonia tecta. |
| | 06 00 | 16 06 | Mons Hercules tectus. |

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNARIS ECLIPSIS. | ° ′ ″ | Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| Oct. 19 | 7 12 25 | 7 22 31 | Mons Corax & Lacus Hyperboreus Major. | | | |
| | 13 52 | 23 58 | Umbra tetigit Mæotida. | | | |
| | 17 58 | 28 04 | Vix tota tecta Mæotis. | | | |
| | 18 25 | 28 31 | Jam tota tecta apparuit. | | | |
| | 21 38 | 31 44 | Immersio parùm infra paludem Mæotida. | | | |
| | | | *Distantiæ deinde Captæ à Meipso cum* D. Halleio. | | | |
| | 34 01 | 44 07 | Lunæ limb. prox. à Markab | 50 38 25 | 1212 73 | 50 38 40 |
| | 37 21 | 47 27 | ——— rep. | 50 40 30 | 1213 48 | 50 40 33 |
| | 50 16 | 8 00 22 | Lunæ limb. rem. ab Algol | 27 34 35 | 660 37 | 27 35 10 |
| | 55 33 | 05 39 | ——— rep. | 27 34 00 | 660 12 | 27 34 32 |
| | 9 01 39 | 9 11 45 | Forsan Emersio. | | | |
| | 02 15 | 12 21 | Emersio certissima è regione Maræotidis. | | | |
| | 04 03 | 14 09 | Tota Maræotis extra Umbram. | | | |
| | 06 38 | 16 44 | Audus emersit. | | | |
| | 11 00 | 21 06 | Porphyrites emersit. | | | |
| | 21 16 | 31 22 | Ultimus limbus Ætnæ. | | | |
| | 22 43 | 32 49 | Totus Sina retectus. | | | |
| | 27 39 | 37 45 | Ultimus limbus Lacus Nigri Majoris. | | | |
| | 36 00 | 46 06 | Besbicus emersit. | | | |
| | 42 40 | 52 46 | Insula Apollonia. | | | |
| | 46 15 | 56 21 | Mons Hercules. | | | |
| | 51 43 | 10 01 49 | Mons Corax. | | | |
| | 57 49 | 07 55 | Mæotis tota retecta. | | | |
| | 10 00 24 | 10 30 | Finis. | | | |
| | 10 13 | 20 19 | Finis Penumbræ. | | | |
| | | | | ° ′ ″ | Revol. Cent. | ° ′ ″ |
| | 38 29 | 48 35 | Lunæ (*in Nonagesimo*) limbus proximus à Palilicio ——— | 27 09 40 | 650 32 | 27 10 00 |
| | 42 59 | 53 05 | Lunæ limbus prox. à lucida Plejadum ——— | 17 37 25 | 422 20 | 17 37 34 |
| | 48 48 | 58 54 | Lunæ limbus remotus à lucida Arietis ——— | 12 09 20 | 291 17 | 12 09 27 |
| | 51 15 | 11 01 21 | ——— rep. | 12 09 30 | 291 21 | 12 09 33 |
| ☽ in ♉ 8°, Lat. Aust. °¼. | 54 39 | 04 45 | Lunæ limbus proximus à lucida Plejadum ——— | 17 32 25 | 420 20 | 17 32 34 |
| | 56 22 | 06 28 | ——— rep. | | 419 84 | 17 31 40 |
| | 58 58 | 09 04 | Lunæ limbus proximus à Palilicio ——— | 27 00 30 | 646 67 | 27 00 51 |

| Tempora per Horologium h. ′ ″ | | Dist. à Vert. ° ′ | Hora supp. h. ′ ″ | Err. Hor. ′ ″ |
|---|---|---|---|---|
| 11 31 16 | Lucidi Pedis Geminor. | 61 30 | | |
| 34 34 | | 61 00 | | |
| 21 05 04 | Sol. limbi inferioris. | 74 50 | 21 15 02 | + 9 58 |
| 09 48 | | 74 20 | 19 56 | + 10 08 |
| 13 10 | | 74 00 | 23 15 | + 10 05 |
| 16 40 | | 73 40 | 26 32 | + 9 52 |
| 23 58 | | 72 59 | 33 45 | + 10 07 |

| ANNO CHRISTI 1678. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNARIS ECLIPSIS. |
|---|---|---|---|
| | | | *Londini, in vico Aulæ Basingensis, observavit D.* Haynesius. |
| ♄ Oct. 19 | 6 31 25 | 6 33 12 | *Eclipsis* Initium. |
| | 47 20 | 49 07 | Umbra tetigit Ætnam. |
| | 52 50 | 54 37 | Sinam. |
| | 7 03 12 | 7 04 59 | Besbicum & Lacum Nigrum Majorem. |
| | 06 45 | 08 32 | Byzantium tectum. |
| | 16 43 | 18 30 | attigit Corocondometen. |
| | 21 10 | 22 57 | Paludem Mæotidis. |
| | 26 00 | 27 47 | Tota Palus tecta. |
| | 29 22 | 31 09 | Immersio. |
| | 9 08 30 | 9 10 17 | Luna cœpit emergere. |
| | 11 30 | 13 17 | Limbus Mareotidis cœpit illustrari. |
| | 28 52 | 30 39 | Ætna retecta. |
| | 43 55 | 45 42 | Besbicus illustratus. |
| | 10 05 18 | 10 07 05 | Palus Mæotis restituta. |
| | 08 30 | 10 17 | Finis suppositus cum Penumbra densa. |
| | | | Interea pro correctione Horologii Altitudines ceperat |

| Tempora per Horologium h. ' " | | Altitud. ° ' | Hor. supputat. h ' " | Err. Horolog. ' " |
|---|---|---|---|---|
| 8 42 00 | Palilicii | 19 07 | 8 43 44 | + 1 44 |
| 45 00 | | 19 46 | 47 56 | + 1 56 |
| 49 00 | | 20 11 | 50 36 | + 1 36 |
| 51 10 | | 20 43 | 52 56 | + 1 46 |
| 10 01 06 | | 31 21 | 10 03 01 | + 1 55 |
| 27 50 | | 35 19 | 29 34 | + 1 44 |

*Wappingæ juxta Londinum ad Anachoretum observante* J. Colson.

| Tempora h. ' " | | Part. per Mic. | ' " |
|---|---|---|---|
| 6 15 12 | Lunæ Diameter ——— | 3245 | = 32 49 |
| 21 02 | ——— rep. | 3247 | = 32 50 |
| 34 05 | Initium ——— | | |
| 44 56 | Lunæ partes lucidæ ——— | 2543 | |
| 55 22 | Umbra tetigit Sinam ——— | | |
| 56 22 | Partes lucidæ ——— | 2000 | |
| 7 01 58 | ——— rep. | 1700 | |
| 04 49 | Umbra tetigit Besbicum ——— | | |
| 06 13 | texit Besbicum ——— | | |
| 08 28 | tetegit Horminium ——— | | |
| 18 56 | Partes lucidæ ——— | 697 | |
| 23 13 | ——— rep. | 519 | |
| 27 42 | Umbra texit Mæotiden ——— | | |
| 31 45 | Immersio ——— | | |
| 9 12 33 | Emersio ——— | | |
| 42 23 | Partes lucidæ ——— | 1688 | |
| 46 51 | ——— rep. | 2000 | |
| 54 49 | Partes lucidæ ——— | 2415 | |
| 10 02 13 | ——— rep. | 2850 | |
| 04 01 | ——— iter. | 3037 | |
| 10 40 | Finis ——— | | |
| 15 | Lunæ Diameter ——— | 3267 | = 33 02 |
| 21 | ——— rep. | 3273 | = 33 06 |

| Anno Christi 1678. Styl. Vet. | LUNARIS ECLIPSIS. |
|---|---|
| ♄ Oct. 19 | Parisiis, *in Observatorio Regio, eandem Eclipsis observarunt* D. Cassinus, Roemerus, & Picartus, *plurimas ab ipsis notatas Phases hic recensere prorsus esset inutile, ipsas propterea duntaxat transcribam quas nobis contigit* Grenovici, *connotare, Meridianorum nostrorum distantiam investigandi gratia.* |

| | *Parisiis.* h. ′ ″ | *Grenovici.* h. ′ ″ | ′ ″ |
|---|---|---|---|
| Initium | 6 43 30 | 6 33 39 | Diff. 9 51 |
| Porphyrites tectus | 52 50 | 44 01 | 08 49 |
| Ultimus limbus Sinæ | 7 04 20 | 55 35 | 08 45 |
| Horminii medium | 17 50 | 7 08 50 | 09 00 |
| Byzantium | 18 28 | 09 16 | 09 12 |
| Apollonia | 21 10 | 12 31 | 08 39 |
| Corocondometidis limbus primus | 28 00 | 18 58 | 09 02 |
| Corax | 32 20 | 22 31 | 09 49 |
| Mæotidis limbus primus | 32 29 | 23 38 | 08 51 |
| Insulæ majoris limbus primus | 34 24 | 25 16 | 09 08 |
| Mæotis tota | 37 50 | 28 31 | 09 19 |
| Immersio | 40 41 | 31 34 | 09 07 |
| Emersio | 9 21 30 | 9 12 46 | 08 44 |
| Maræotis tota retecta | 23 40 | 14 36 | 09 04 |
| Porphyrites | 30 25 | 20 36 | 09 49 |
| D. *Halleio.* | | 21 06 | 09 19 |
| Ætna tota | 40 18 | 31 22 | 08 56 |
| Sina tota | 42 10 | 32 42 | 09 28 |
| Byzantium | 59 40 | 48 46 | 10 14 |
| Horminius | 10 00 00 | 50 06 | 09 54 |
| Apollonia | 02 15 | 52 46 | 09 29 |
| Macra tota | 03 40 | 54 18 | 09 22 |
| Mæotis tota | 16 50 | 10 07 32 | 09 18 |
| Finis | 20 00 | 10 38 | 09 22 |
| Differentiarum intermedia | | | 09 14 |

Statuatur ergo Meridianorum differentia *Grenovicanum* inter Observatorium & *Parisinum* 9¼ min. hor. vel 2°. 20′, qua nèc sensibilitèr minor investigata fuerit ab Eclipsi Lunari, *Dec.* 21, 1675.

| Anno Christi 1678. Styl. Vet. | *Tempora per Horologium Oscillatorium* h. ′ ″ | *Tempora ex Altitud. Correcta.* h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. *Dist. à Vert.* ° ′ | *Hor. supput.* h. ′ ″ | *Err. Horolog.* ′ ″ | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|
| ♂ Nov. 5 | 6 08 23 | —— | 55 50 | 6 14 36 | + 06 13 | | | |
| | 11 38 | —— | 55 20 | 17 44 | + 06 06 | | | |
| | 13 49 | —— | 55 00 | 20 00 | + 06 11 | | | |
| | 17 02 | luc. Ariet. | 54 20½ | 23 12 | + 06 10 | | | |
| | 20 19 | —— | 53 59½ | 26 34 | + 06 15 | | | |
| ☽ 11 | 4 43 10 | 4 47 10 | ☽ alt. 27°½ Diam. 6545 = | | | 32 39 | | |
| | 49 14 | 53 14 | —— rep. 6542 = | | | 32 38 | | |
| | 5 20 02 | 5 24 02 | ☽ limb. rem. a lucid. Ariet. | | | 60 08 30 | 1440 72 | 60 08 50 |
| | 22 46 | 26 46 | —— rep. | | | 60 07 20 | 1440 27 | 60 07 42 |
| ☽ in ♓ 3° Lat. B. 4 | 33 35 | 37 35 | —— proximus ab Ore Pegasi | | | 18 49 10 | 450 75 | 18 49 06 |
| | 36 36 | 40 36 | —— rep. | | | 18 49 25 | 450 84 | 18 49 20 |
| | 44 10 | 48 10 | remotus à lucida Arietis | | | 59 58 10 | 1436 49 | 59 58 13 |

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | | | Distantiæ per lineal diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ' | Hor. supp. h. ' " | Err. Horol. ' " | | | | |
| ♂ Nov. 12 | 7 11 16 | | 56 30 | 7 14 46 | + 03 30 | | | | |
| | 14 23 | luc. Plejadum. | 56 00 | 17 59 | + 03 36 | | | | |
| | 17 36 | | 55 30 | 21 13 | + 03 37 | | | | |
| | 20 50 | | 55 00 | 24 26 | + 03 35 | | | | |
| **Anno Christi MDCLXXIX.** | | | | | | | | | |
| | | | Dist. à Vert. ° ' | Hor. supp. h. ' " | Err. Horol. ' " | | | | |
| ♂ Jan. 14 | 5 22 38 | | 64 00 | 5 13 56 | — 8 48 | | | | |
| | 35 31 | Lucidi Pedis Gemini. | 62 00 | 26 52 | — 8 39 | | | | |
| | 38 48 | | 61 30 | 30 07 | — 8 41 | | | | |
| | 42 10 | | 61 00 | 33 22 | — 8 48 | | | | |
| | 48 35 | | 60 00 | 39 54 | — 8 41 | | | | |
| | 7 26 43 | 7 17 59 | Lunæ limb. prox. à Palilicio | | | 37 51 05 | 906 20 | 37 50 28 | ☽ in ♋ 13° Lat. A 5 |
| | 28 33 | 19 49 | ——— rep. | | | 37 51 55 | 906 50 | 37 51 13 | |
| | 33 28 | 24 44 | ——— remot. à Procyone | | | 13 23 05 | 320 42 | 13 22 49 | |
| | 39 50 | 31 06 | ——— proxim. à Palilicio | | | 37 56 25 | 908 33 | 37 55 51 | |
| | 42 12 | 33 28 | ——— rep. | | | 37 57 30 | 908 74 | 37 56 51 | |
| | 9 05 08 | 8 56 24 | 13° Geminorum lucis 4tæ, erat in recta cum Lacu Nigro Majore & Monte Sina, ab austrina parte Lunæ. | | | | | | P. Halleius aderat. |
| | 10 37 56 | 10 28 52 | Lun. lim. prox. à Palilicio — | | | 39 05 50 | 936 26 | 39 05 42 | |
| | 49 37 | 40 53 | ——— rep. | | | 39 10 15 | 938 00 | 39 10 05 | |
| | 51 47 | 43 03 | ——— remot. à Regulo — | | | 41 02 30 | 982 71 | 41 02 12 | |
| | 11 00 43 | 51 59 | ——— proxim. à Palilicio | | | 39 14 00 | 939 29 | 39 13 18 | |
| | 05 49 | 57 05 | Lunæ limb. lucidus à Regulo | | | 40 59 05 | 981 33 | 40 58 45 | |
| | 11 12 | 11 02 08 | ——— à Palilicio | | | 39 17 50 | 941 12 | 39 17 54 | |
| | | | Dist. à Vert. ° ' | Hor. supput. h. ' " | Err. Horol. ' " | | | | |
| ♂ 28 | 5 41 58 | | 53 40 | 5 32 29 | — 9 29 | | | | |
| | 46 17 | | 53 00 | 36 46 | — 9 31 | | | | |
| | 50 32 | Pollucis | 52 19½ | 41 06 | — 9 26 | | | | |
| | 52 40 | | 52 00 | 43 11 | — 9 29 | | | | |
| *vel* | 54 46 | | 51 40 | 45 20 | — 9 26 | | | | |
| ☿ 29 *mane* | 22 54 17 | 22 44 49 | Lunæ lim. prox. à Solis remot. | | | 35 10 25 | 841 93 | 35 09 45 | ☽ in ♑ 15° Lat. B. 5 |
| | 59 22 | 49 57 | ——— rep. | | | 35 07 30 | 840 98 | 35 07 22 | |
| | 23 02 47 | 53 52 | ——— iter. | | | 35 06 45 | 840 66 | 35 06 34 | |
| | 4 36 | 56 11 | ——— denuò | | | 35 06 15 | 840 46 | 35 06 04 | |

*Attamen adeò tenuis erat partis lucentis illuminatio, ut etiamsi limbi terminum satis bene videre potuerim, cum vix integrum minutum à Filis abfuerit, difficile tamen fuit sub ipso transitu discernere. Captas quamobrem mensuras in ipsis minutis accuratas affirmare non audeo: quibus*

| | Anno Christi 1674. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. correcta h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ♂ Jan. 28 vel ☿ 29 mane. | | | *tamen credo tutò fidere possimus, electis jis quæ optimè congruere comperiantur.* | | | |
| ☽ in ♉ 4°½. Lat. Aust. 0° | ♀ Feb. 5 | 8 14 20 | 8 05 33 | Lunæ limb. remot. à Palilicio | 31 42 25 | 759 44 | 31 43 27 |
| | | 19 05 | 10 18 | ——— rep. | 31 40 00 | 758 46 | 31 41 00 |
| | | 25 31 | 16 44 | ——— prox. à 2ª Ariet.-β | 10 16 35 | 246 02 | 10 16 38 |
| | | 30 42 | 21 55 | ——— præced. à Palilicio | 31 34 10 | 756 04 | 31 35 00 |
| | | 34 37 | 25 50 | ——— rep. | 31 32 20 | 755 26 | 31 33 00 |
| ☽ in ♉ 18°½. Lat. Aust. 1½ | ♃ 6 | 8 22 39 | 8 13 57 | Lunæ limb. remot. à Palilicio | 17 41 40 | 424 06 | 17 42 15 |
| | | 27 00 | 18 18 | ——— rep. | 17 39 05 | 423 04 | 17 39 42 |
| | | 37 50 | 29 08 | ——— prox. ab Algol Medus. | 24 30 50 | 586 86 | 24 30 50 |
| | | 42 53 | 34 11 | ——— rep. | 24 30 40 | 586 83 | 24 30 45 |
| | | 47 41 | 38 59 | ——— præcedens à Palilicio. | 17 29 35 | 419 18 | 17 30 00 |
| | | 49 49 | 41 07 | ——— rep. | | 418 73 | 17 28 52 |
| ☽ in ♊ 1°. Lat. Aust. 2½ | ♀ 7 | 7 33 57 | 7 25 20 | Lunæ limbus remot. ab Austr. Cornu Tauri ζ | 19 09 40 | 458 92 | 19 09 35 |
| | | 37 07 | 28 30 | ——— rep. | 19 08 10 | 458 31 | 19 08 03 |
| | | 45 20 | 36 43 | ——— proximus ab Algol β | 27 04 40 | 648 33 | 27 05 00 |
| | | 48 30 | 39 53 | ——— rep. | 27 04 40 | 648 30 | 27 04 55 |
| | | 53 13 | 44 36 | ——— remot. à ♉¹ Corn. Aust. | 19 01 50 | 455 78 | 19 01 42 |
| | | 56 18 | 47 41 | ——— rep. | 19 00 20 | 455 18 | 19 00 12 |
| | | 10 38 06 | 10 29 29 | ☽ * altæ 27° Diam. 6320 = | 31 32 | | |
| | | | | Dist. à Vert. ° ′ — Hor. supp. h. ′ ″ — Err. Horolog. ′ ″ | | | |
| | | 50 42 | Caudæ Leonis | 47 50 — 10 42 05 — — 08 37 | | | |
| | | 53 14 | | 47 30 — 44 36 — — 08 38 | | | |
| | | 55 43 | | 47 10 — 47 08 — — 08 35 | | | |
| ☽ in ♋ 22°. Lat. Aust. 5° | ♂ 11 | 6 43 13 | 6 35 16 | Lunæ limb. prox. à Palilicio | 46 48 45 | 1120 91 | 46 48 30 |
| | | 45 39 | 37 41 | ——— rep. | 46 49 50 | 1121 25 | 46 49 21 |
| | | 50 55 | 42 58 | ——— à Procyone | 10 14 25 | 245 30 | 10 14 48 |
| | | 53 33 | 45 36 | ——— à Palilicio | 46 52 40 | 1122 55 | 46 52 37 |
| | | 56 33 | 48 36 | ——— rep. | | 1122 82 | 46 53 18 |
| | | 7 00 15 | 52 18 | ——— iterùm | 46 55 50 | 1123 58 | 46 55 15 |
| | | | | Dist. à Vert. ° ′ — Hor. supp. h. ′ ″ — Err. Horolog. ′ ″ | | | |
| | | 8 40 16 | Reguli | 52 00 — 8 32 20 — — 07 56 | | | |
| | | 43 54 | | 51 30 — 36 04 — — 07 50 | | | |
| | | 47 50 | | 51 00 — 39 51 — — 07 59 | | | |
| | | 51 40 | | 50 30 — 43 39 — — 08 01 | | | |
| ☽ in ♒ 6°. Lat. Bor. 5° | ☿ Feb. 26 | 6 58 16 | Reguli | 57 50 — 6 52 48 — — 05 28 | | | |
| | | 7 01 45 | | 57 20 — 56 14 — — 05 31 | | | |
| | | 03 56 | | 57 00 — 58 32 — — 05 24 | | | |
| | | 07 28 | | 56 30 — 7 02 00 — — 05 28 | | | |
| | | 10 57 | | 56 00 — 05 29 — — 05 28 | | | |
| | | 20 04 10 | 19 58 50 | Lunæ limbus proximus à Solis remoto ——— | 42 47 25 | 1024 78 | 42 47 40 |
| | | 07 26 | 20 02 06 | ——— rep. | | 1024 34 | 42 46 34 |
| | | 11 10 | 05 50 | ——— iterùm | | 1023 73 | 42 45 03 |
| | | 13 24 | 08 04 | ——— à Solis proximo | 42 11 20 | 1010 47 | 42 11 46 |

| ANNO CHRISTI 1679. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ · Hora supput. h. ′ ″ · Err. Horol. ′ ″ | | | | |
| ☿ Mar. 5 | 7 19 10 | Reguli | 51 00 · 7 18 27 · — 0 43 | | | | |
| | 22 57 | | 50 30 · 22 12 · — 0 45 | | | | |
| vel | 26 44 | | 50 00 · 26 04 · — 0 40 | | | | |
| ♃ 6 | 23 04 40 | 23 04 10 | Lunæ limb. proxim. à Solis proximo —— | 56 25 45 | 1351 42 | 56 25 42 | |
| mane. | 23 11 | 22 41 | —— à Solis remoto | 57 01 15 | 1365 75 | 57 01 26 | |
| ♂ 11 | 8 32 46 | 8 34 26 | Lunæ limbus proximus à Calce Castoris μ —— | 31 38 30 | 757 63 | 31 39 00 | |
| | 35 20 | 37 00 | —— rep. | 31 39 25 | 758 10 | 31 40 10 | ☽ in ♌ 2° ½ Lat. Aust. 5½ |
| | 43 32 | 45 12 | —— rem. ab Australi in Pede Ursæ Majoris μ —— | 37 37 00 | 900 91 | 37 37 20 | |
| | 46 48 | 48 28 | —— rep. | | 900 84 | 37 37 10 | |
| | 52 05 | 53 45 | Lunæ limb. præced. à Calce Castoris —— rep. | 31 45 40 | 760 68 | 31 46 40 | |
| | | | Dist. à Vert. ° ′ · Hor. supput. h. ′ ″ · Err. Horol. ′ ″ | | | | |
| ☉ 16 | 20 16 41 | Sol. limbi inferioris. | 67 00 · 20 20 29 · + 3 48 | | | | |
| vel | 20 23 | | 66 30 · 24 07 · + 3 44 | | | | |
| ☽ 17 | 23 58 | | 66 00 · 27 47 · + 3 49 | | | | |
| mane. | 27 42 | | 65 30 · 31 28 · + 3 46 | | | | |
| | | | N. B. *Quod in omnibus hucusque Observationibus in Observatorio habitis, Tempora per Horologium* Axiculare *numerata fuerint: In sequentibus* Laminari *utar.* | | | | |
| | | | Dist. à Vert. ° ′ · Hor. supput. h. ′ ″ · Err. Horol. ′ ″ | | | | |
| ♂ 25 | 20 21 42 | Sol. limbi inferioris. | 64 00 · 20 21 20 · — 0 22 | | | | |
| vel | 25 24 | | 63 30 | | | | |
| ☿ 26 | 28 56 | | 63 00 · 28 29 · — 0 27 | | | | |
| mane. | 34 56 | | 62 10 · 34 32 · — 0 24 | | | | |
| ☿ 26 | 19 21 15 | 19 21 05 | Lunæ limbus proxim. à Solis remoto —— | 61 53 10 | 1482 75 | 61 53 50 | |
| | 24 06 | 23 56 | —(*altiore adhuc Lunâ*) —rep. | 61 52 00 | 1482 20 | 61 52 28 | ☽ in ♒ 15° Lat. Bor. 5. |
| | 57 45 | 57 35 | —— iter. | 61 38 20 | 1476 66 | 61 38 36 | |
| | 20 00 25 | 20 00 15 | —— (*=alt.*) —— rep. | 61 37 25 | 1476 30 | 61 37 42 | |
| | 02 55 | 02 40 | Lunæ limbus proxim. à Solis proximo —— | 61 04 40 | 1463 01 | 61 04 30 | |
| ♃ 27 | 20 11 30 | 20 11 36 | Lunæ limb. proxim. à Solis remoto —— | 47 55 15 | 1147 45 | 47 55 00 | |
| vel ♀ 28 | 15 45 | 15 51 | —— rep. | 47 53 05 | 1146 71 | 47 53 09 | ☽ in ♓ 0° Lat. Bor. 4½. |
| mane. | 17 52 | 17 58 | —— iter. | 47 52 05 | 1146 25 | 47 52 00 | |
| | 20 11 | 20 17 | —— à Solis proximo | 47 19 05 | 1133 07 | 47 19 00 | |
| | 22 23 | 22 29 | —— rep. | 47 17 55 | 1132 67 | 47 18 00 | |

| | Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | | | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Dist. a Vert. ° ′ | Hora supp. h. ′ ″ | Err. Horol. ′ ″ | | | |
| | ☿ Mar. 27 | 20 47 00 | Sol. limbi inferioris | 59 50 | 20 47 04 | + 0 04 | | | |
| | vel | 49 26 | | 59 30 | 49 33 | + 0 07 | | | |
| | ♀ 28 | 53 12 | | 59 00 | 53 20 | + 0 08 | | | |
| | mane. | 55 46 | | 58 40 | 55 53 | + 0 07 | | | |
| | ♀ 28 vel | 20 51 32 | 20 51 52 | Lunæ limbus proximus à Solis remoto | | | 33 38 50 | 805 54 | 33 38 42 |
| ☽ in ♓ 15° Lat. Bor. $3\frac{1}{2}$. | ♄ 29 | 57 25 | 57 45 | rep. | | | 33 36 05 | 804 35 | 33 35 50 |
| | mane. | 21 03 06 | 21 03 26 | iter. | | | 33 33 30 | 803 35 | 33 33 20 |
| | | | | Dist. a Vert. ° ′ | Hora supp. h. ′ ″ | Err. Horol. ′ ″ | | | |
| | ♄ 29 | 4 16 12 | Sol. limbi inferioris | 68 30 | 4 16 34 | + 0 22 | | | |
| | | 20 42 | | 69 10 | | | | | |
| | | 22 49 | | 69 30 | 23 11 | + 0 22 | | | |
| | | 26 10 | | 70 00 | 26 30 | + 0 20 | | | |
| | | 29 30 | | 70 $30\frac{1}{2}$ | 29 53 | + 0 23 | | | |
| | ♀ Maij 2 | 20 11 20 | Sol. limbi inferioris | 55 00 | 20 15 36 | + 4 15 | | | |
| | vel | 14 38 | | 54 30 | 18 56 | + 4 18 | | | |
| | ♄ 3 | 17 57 | | 54 00 | 22 17 | + 4 20 | | | |
| | mane. | 21 22 | | 53 30 | 25 39 | + 4 17 | | | |
| | | 24 46 | | 53 00 | 29 03 | + 4 17 | | | |
| ☽ in ♊ 1° Lat. Aust. 3. | | 23 28 00 | 23 32 12 | Lunæ limbus proximus à Solis remoto | | | 44 31 05 | 1066 11 | 44 31 10 |
| | | 30 35 | 34 47 | rep. | | | 44 32 20 | 1066 70 | 44 32 39 |
| | | 33 38 | 37 50 | à Solis prox. | | | 44 01 30 | 1054 25 | 44 01 27 |
| | | 35 23 | 39 37 | rep. | | | 44 02 15 | 1054 56 | 44 02 13 |
| | ♄ 3 | 3 18 50 | 3 23 00 | Lunæ limbus proxim. à Solis remoto | | | 45 58 45 | 1101 30 | 45 59 21 |
| | | 22 00 | 26 10 | rep. | | | 46 00 05 | 1101 86 | 46 00 45 |
| | | 24 04 | 28 14 | Lunæ limbus proximus à Solis proximo | | | 45 28 55 | 1089 53 | 45 29 58 |
| | | 26 14 | 30 24 | rep. | | | 45 29 45 | 1089 79 | 45 30 27 |
| | ☽ 5 | 9 19 26 | 9 23 16 | Lunæ limb. proxim. à Polluce | | | 21 53 10 | 524 03 | 21 53 14 |
| | | 21 41 | 25 31 | rep. | | | 21 54 25 | 524 33 | 21 53 59 |
| | | 26 56 | 30 46 | Lunæ limb. remot. à lucida in Cervice Leonis | | | 23 26 50 | 561 59 | 23 27 30 |
| | | 28 44 | 32 34 | rep. | | | 23 26 10 | 561 39 | 23 27 00 |
| ☽ in ♋ 4°½ Lat. Aust. 5. | | 30 37 | 34 27 | Lunæ limb. prox. à Polluce | | | 22 16 45 | 533 49 | 22::16 57 |
| | | | | *Erroneæ vereor.* | | | | | |
| | | | | Dist. a Vert. ° ′ | Hor. supput. h. ′ ″ | Err. Horol. ′ ″ | | | |
| | ☉ 11 | 19 39 44 | Sol. limbi inferioris | 58 30 | 19 42 14 | + 2 30 | | | |
| | | 42 54 | | 58 00 | 45 29 | + 2 35 | | | |
| | | 46 16 | | 57 30 | 48 44 | + 2 28 | | | |
| | | 49 24 | | 57 00 | 52 00 | + 2 36 | | | |
| | | 52 40 | | 56 30 | 55 15 | + 2 35 | | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ♂ Maij 13 | 8 51 00 | 8 53 34 | ☽ Diamet. altâ eâ 19° — Part. per Mic. 6078 = 30' 19" | | | | |
| | 9 04 10 | 9 06 44 | —— rep. — 6072 = 30' 17" | | | | |
| | 47 57 | 50 31 | Lunæ limb prox. à Spica Virginis | 24 37 20 | 589 53 | 24 37 30 | |
| | 51 33 | 54 07 | —— rep. | 24 38 20 | 590 05 | 24 38 48 | |
| | 57 40 | 10 00 14 | —— ab Arcturo | 37 47 50 | 905 05 | 37 47 38 | |
| | 10 01 44 | 04 18 | —— rep. | 37 48 55 | 905 46 | 37 48 40 | ☽ in ♏ 14° Lat. Bor. 1¾. |
| | 05 14 | 07 48 | —— à Spica Vir. | 24 43 40 | 592 09 | 24 43 54 | |
| | 07 52 | 10 26 | —— rep. | 24 46 05 | 592 61 | 24 45 12 | |
| ☿ 14 | 9 52 27 | 9 55 02 | ☽ Diamet. — Part. per Mic. 6140 = 30' 38" | | | | |
| | | | meliùs rep. — 6166 = 30' 46" | | | | |
| | 11 13 10 | 11 15 45 | Lunæ limb. prox. à Spica Virginis | 37 45 10 | 904 03 | 37 45 02 | |
| | 16 29 | 19 04 | —— rep. | | 904 48 | 37 46 10 | |
| | 22 55 | 25 30 | —— à lucida in Collo Serpentis | 25 16 25 | 605 13 | 25 16 36 | ☽ in ♏ 27° Lat. Bor. 2½. |
| | 27 05 | 29 39 | —— rep. | 25 17 05 | 605 40 | 25 17 16 | |
| | 32 00 | 34 34 | Lunæ limb. prox. à Spica Virginis | 37 52 10 | 906 75 | 37 51 54 | |
| | 35 30 | 38 04 | —— rep. | 37 53 25 | 907 36 | 37 53 24 | |
| | | | *Præsente D.* Olao Roemero *Dano, ab Academia Gallica in Angliam misso ut Observatorium, &c. videret.* | | | | |

| Anno Christi | Tempora per Horologium h. ' " | Tempora ex Altitud. | Dist. vert. ° ' | Hor. supputat. h. ' " | Err. Horol. ' " |
|---|---|---|---|---|---|
| | 20 19 52 | Sol. limbi inferioris | 52 00 | 20 22 26 | + 2 34 |
| | 23 09 | | 51 30 | 25 47 | + 2 38 |
| | 26 34 | | 51 00 | 29 08 | + 2 34 |
| | 29 55 | | 50 30 | 32 29 | + 2 34 |
| | 33 16 | | 50 00 | 35 50 | + 2 34 |
| ♂ Junij 10 | 20 01 06 | Sol. limbi inferioris | 54 00 | 19 57 00 | — 4 06 |
| | 04 26 | | 53 30 | 20 00 17 | — 4 09 |
| | 07 44 | | 53 00 | 03 32 | — 4 12 |
| | 11 01 | | 52 30 | 06 47 | — 4 14 |
| | 14 17 | | 52 00 | 10 02 | — 4 14 |

| Anno Christi | Tempora per Horologium h. ' " | Tempora ex Altitud. h. ' " | Lunæ Distantiæ à Fixis | Per lineas diagonales ° ' " | Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ☿ 11 | 12 18 19 | 12 14 01 | Lunæ limb. rem. à ♐ in Capite Sagittarii | 36 12 00 | 866 79 | 36 11 57 | |
| | 22 17 | 17 59 | —— rep. | | 866 24 | 36 10 35 | |
| | 30 08 | 25 50 | —— à Cap. Herculis | 35 32 30 | 851 28 | 35 33 07 | ☽ in ♐ 6° Lat. Bor. 3½. |
| | 33 30 | 29 12 | —— rep. | 35 32 00 | 851 09 | 35 32 09 | |
| | 40 01 | 35 43 | Lunæ limb. anterior à ♐ Sagittarii | 36 03 00 | 863 25 | 36 03 04 | |
| | 42 46 | 38 28 | —— rep. | 36 02 10 | 862 87 | 36 02 07 | |
| | 52 26 | 48 08 | Caput Herculis à ♐ Sagittarii | 45 16 25 | 1084 27 | 45 16 37 | |

| | Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' '' | Tempora ex Altitud. Correcta. h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' '' | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' '' |
|---|---|---|---|---|---|---|---|
| | ♄ Jan. 14 | | | Post Occasum Solis, observata Occultatio 11ᵃ Sagittarii, lucis 4ᵃ, cujus tùnc locus Tychonicus Capricorni 15° 00', Lat. 4° 17' Sept. ut sequitur. | | | |
| | | | | Ab Occasu Solis ad horam 9½, nubes ferè continuæ tegebant Lunam, è quibus tùnc cœpit emergere. | Part. per Mic. | ' '' | |
| | | 9 15 30 | 9 10 20 | Lunæ limb. proxim. à Stellâ | 633 | = 03 10 | |
| | | 24 10 | 19 00 | Valdè vicina limbo erat paulò ad Austrum à linea ducta per Porphyriten & Insulam Circinnam, nèc diutiùs conspici potuit, ergo nùnc hic tectam pono. | | | |
| Vide Fig. 122. | | 9 56 38 | 9 51 28 | Lunæ Diameter ——— | 6335 | = 31 36 | |
| | | 10 01 00 | 55 50 | ——— rep. | 6330 | = 31 34 | |
| | | 24 10 | 10 19 00 | Lunæ limb. proxim. à Stellâ | 795 | = 03 58 | |
| | | | | Emersionem videre nòn licuit propter Nubes, quæ ab ipsa Immersione Lunam vexare nòn desiissent. | | | |
| | | | | Fixa nunc Caspiæ longitudinem ipsius parte Borea erat Borealior, tùnc nubes iterùm. | | | |
| | | | | Dist. a Vert. ° ' \| Hora Supp. h. ' '' \| Err. Horolog. ' '' | | | |
| ☽ in ♉ 14° Lat. Aust. 2° | ☉ 22 vel ☽ 23 mane. | 20 16 35 | Limbi Solis inferioris. | 52 30 \| 20 09 15 \| — 07 20 | | | |
| | | 19 48 | | 52 00 \| 12 29 \| — 07 19 | | | |
| | | 23 00 | | 51 30 \| 15 44 \| — 07 16 | | | |
| | | 26 24 | | 51 00 \| 19 04 \| — 07 20 | | | |
| | | 29 40 | | 50 30 \| 22 22 \| — 07 18 | | | |
| | | 21 50 00 | 21 42 42 | Lunæ limbus proximus à Solis proximo ——— | 56 50 25 | 1361 69 | 56 51 18 |
| | | 52 50 | 45 32 | ——— rep. | 56 49 05 | 1361 02 | 56 49 37 |
| | | 55 42 | 48 24 | ——— à Solis remot. | 57 19 25 | 1373 19 | 57 20 00 |
| | | 58 32 | 51 14 | ——— rep. | 57 18 25 | 1372 77 | 57 18 57 |
| ☽ in ♉ 28° Lat. Aust. 2½ | ☽ 23 vel ♂ 24 mane. | 21 00 50 | 20 53 10 | Lunæ limbus proximus à Solis proximo ——— | 44 08 15 | 1057 04 | 44 08 27 |
| | | 04 16 | 56 36 | ——— rep. | 44 06 55 | 1056 53 | 44 07 11 |
| | | 06 25 | 58 45 | ——— à Solis remot. | 44 36 30 | 1068 79 | 44 37 52 |
| | | 12 44 | 21 05 04 | ——— rep. | 44 35 05 | 1067 81 | 44 35 25 |
| | | 14 26 | 06 46 | ——— iterum. | 44 34 25 | 1067 54 | 44 34 45 |
| | ☿ Jun. 25 | 0 45 55 | 0 37 55 | Lunæ limbus proximus à Solis proximo ——— | 29 54 20 | 716 24 | 29 55 05 |
| | | 48 12 | 40 12 | ——— rep. | 29 53 15 | 715 82 | 29 54 02 |
| | | 50 13 | 42 13 | ——— à Solis remoto | 30 24 00 | 728 20 | 30 25 00 |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. Dist. à Vert. ° ′ | Hora Supp. h. ′ ″ | Err. Horolog. ′ ″ | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|---|---|
| ☿ Junii 25 | 4 33 27 | | 58 00 | 4 25 23 | — 08 04 | | | | |
| | 36 42 | Limbi | 58 30 | 28 39 | — 08 03 | | | | |
| | 39 55 | Solis in- | 59 00 | 31 48 | — 08 07 | | | | |
| | 43 00 | ferioris. | 59 30 | 34 57 | — 08 03 | | | | |
| | 46 14 | | 60 00 | 38 14 | — 08 00 | | | | |
| ☽ Julii 7 | 4 30 12 | Limbi | 58 20 | 4 19 49 | — 10 23 | | | | |
| | 32 24 | Solis in- | 58 40 | 21 57 | — 10 27 | | | | |
| | 34 30 | ferioris. | 59 00 | 24 06 | — 10 24 | | | | |
| | 37 44 | | 59 30 | 27 19 | — 10 25 | | | | |
| ☿ 9 | 10 37 37 | 10 27 07 | Lunæ limbus remotus à præced. contig. in Cornu Bor. Capricorni ad α — | | | 46 31 35 | 1114 45 | 46 32 18 | |
| | 42 11 | 31 41 | — rep. | | | 46 29 55 | 1113 67 | 46 30 22 | ☽ in ♐ 13° Lat. Bor. 3 |
| | 52 07 | 41 37 | Lunæ limb. prox. à lucid. inferiore in humer. Ophiuchi præced. ϰ — | | | 29 06 30 | 696 78 | 29 06 22 | |
| | 56 00 | 45 30 | — rep. | | | 29 06 30 | 696 84 | 29 06 31 | |
| | 11 00 25 | 49 55 | ☽ᵃ lim. præc. à Corn. ♑ⁱ iter. | | | 46 22 50 | 1110 85 | 46 23 16 | |
| | 01 53 | 51 23 | — rep. | | | 46 21 35 | 1110 42 | 46 22 11 | |
| | | | Dist. à Vert. ° ′ | Hor. suppu. h. ′ ″ | Err. Horolog. ′ ″ | | | | |
| ♃ 10 | 20 13 28 | | 55 20 | | | | | | |
| vel | 15 45 | Limbi | 55 00 | 20 05 16 | — 10 35 | | | | |
| ♀ 11 | 20 06 | Solis in- | 54 20 | 09 32 | — 10 34 | | | | |
| mane. | 22 16 | ferioris | 54 00 | 11 43 | — 10 33 | | | | |
| | 25 36 | | 53 30 | 15 01 | — 10 35 | | | | |
| ♂ 22 | 19 47 05 | | 61 30 | 19 36 13 | — 10 52 | | | | |
| vel | 50 22 | Limbi | 61 00 | 39 27 | — 10 55 | | | | |
| ☿ 23 | 53 37 | Solis in- | 60 30 | 42 42 | — 10 55 | | | | |
| mane | 56 51 | ferioris | 60 00 | 45 57 | — 10 54 | | | | |
| | 20 00 09 | | 59 30 | 49 13 | — 10 56 | | | | |
| | 23 46 | 20 12 52 | Lunæ limb. prox. à Solis proximo — | | | 48 17 40 | 1156 56 | 48 17 50 | ☽ in ♊ 21° Lat. Aust. 4 |
| | 26 42 | 15 48 | — rep. | | | 48 17 00 | 1156 30 | 48 17 11 | |
| | 28 33 | 17 39 | — iter. | | | 48 16 10 | 1156 04 | 48 16 32 | |
| | 29 58 | 19 04 | Lunæ limb. prox. à Solis remoto — | | | 48 47 30 | 1168 53 | 48 47 51 | |
| | 31 44 | 20 50 | — rep. | | | 48 46 40 | 1168 25 | 48 47 09 | |
| | 33 17 | 22 23 | — iter. | | | 48 46 10 | 1167 97 | 48 46 27 | |
| | | | Dist. à Vert. ° ′ | | | | | | |
| ☿ 23 | 19 51 40 | | 61 00 | | | | | | |
| vel | 54 51 | Limbi | 60 30 | | | | | | |
| ♃ 24 | 58 10 | Solis in- | 60 00 | | | | | | |
| mane | 20 01 28 | ferioris | 59 30 | | | | | | |
| | 04 42 | | 59 00 | | | | | | |
| | 12 10 | 20 01 10 | Lunæ limb. prox. à Solis remoto — | | | 36 37 40 | 877 15 | 36 37 54 | ☽ in ♋ 4° Aust. Lat. 5. |
| | 15 24 | 04 24 | — rep. | | | 36 36 45 | 876 78 | 36 36 58 | |
| | 17 43 | 06 43 | — à Solis proximo | | | 36 04 30 | 863 78 | 36 04 24 | |
| | 20 30 | 09 30 | — rep. | | | 36 03 50 | 863 46 | 36 03 36 | |

| | Anno Christi 1679. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h. ' " | *Tempora ex Altitud. Correcta.* h. ' " | *Lunæ* Distantiæ à Fixis. | *Distantiæ per lineas diagonales.* ° ' " | *Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|
| | | | | *Dist. à Vert.* ° ' / *Hora suppus.* h. ' " / *Err. Horolog.* ' " | | | |
| | ♃ Julii 31 | 19 46 36 | | 63 20 / 19 36 46 / — 09 50 | | | |
| | | 48 47 | Limbi | 63 00 / 38 57 / — 09 59 | | | |
| | | 50 58 | Solis in- | 62 40 / 41 07 / — 09 51 | | | |
| | | 53 07 | ferioris | 62 20 / 43 18 / — 09 49 | | | |
| | | 56 21 | | 61 50 / 46 34 / — 09 47 | | | |
| | ☽ Aug. 4 | 8 47 18 | 8 37 38 | Lunæ limb. rem. ab ult. Capitis Sagittarii π | 47 11 55 | 1130 26 | 47 11 57 |
| | | 51 46 | 42 06 | rep. | 47 09 50 | 1129 52 | 47 10 06 |
| *☽ in ♏ 25°. Lat. Bor. 2* | | 57 12 | 47 32 | Lunæ limb. prox. à lucid. in Collo Serpentis | 24 14 35 | 580 50 | 24 14 52 |
| | | 9 00 10 | 50 30 | rep. | 24 14 30 | 580 44 | 24 14 43 |
| | | 05 35 | 55 55 | Lunæ limbus remotus à Sagittarii π | 47 04 45 | 1127 48 | 47 05 00 |
| | | 16 50 | 9 07 10 | rep. | 47 00 05 | 1125 51 | 47 00 04 |
| | | | | Lucida in Collo Serpentis & π Sagittarii | 57 23 45 | 1374 66 | 57 23 45 |
| | | | | *Dist. à Vert.* ° ' / *Hora suppus.* h. ' " / *Err. Horolog.* h. ' " | | | |
| | ♂ 5 | 4 50 02 | Limbi | 67 00 / 4 40 20 / — 09 42 | | | |
| | | 53 15 | Solis in- | 67 30 / 43 24 / — 09 41 | | | |
| | | 56 28 | ferioris | 68 00 / 46 48 / — 09 40 | | | |
| | | 59 47 | | 68 30 / 50 01 / — 09 46 | | | |
| | ☿ 6 | 8 55 33 | 8 46 17 | Lunæ limb. rem. à Sagittarii π | 21 59 55 | 526 78 | 22 00 07 |
| *☽ in ♐ 21° Lat. Bor. 4.* | | 9 01 08 | 51 52 | rep. | 21 58 00 | 525 95 | 21 58 03 |
| | | 08 40 | 59 24 | Lunæ limb. prox. à Capite Herculis | 34 24 00 | 823 48 | 34 23 39 |
| | | 11 40 | 9 02 24 | rep. | 34 24 00 | 823 54 | 34 23 48 |
| | | 16 50 | 07 34 | Lunæ limb. remot. à Sagittarii π | 21 52 05 | 523 54 | 21 52 00 |
| | | 20 56 | 11 40 | rep. | 21 50 00 | 522 88 | 21 50 20 |
| | | 29 22 | 20 06 | Caput Herculis à Sagittarii π | 45 16 55 | 1084 49 | 45 17 10 |
| | ♃ 7 | 8 59 25 | 8 50 29 | Lunæ limb. rem. ab Aust. in Cornu Capricorni β | 26 22 30 | 631 49 | 26 22 40 |
| | | 9 04 20 | 55 24 | rep. | 26 20 50 | 630 73 | 26 20 46 |
| *☽ in ♑ 3° ½ Lat. Bor. 4½* | | 16 01 | 9 07 05 | Lunæ limb. prox. à ζ in Serpente Ophiuchi | 16 23 50 | 392 83 | 16 24 00 |
| | | 19 19 | 10 23 | rep. | 16 23 40 | 392 74 | 16 23 48 |
| | | 25 26 | 16 30 | Lunæ limb. rem. à Capric. β | 26 11 50 | 627 24 | 26 12 03 |
| | | 29 32 | 20 36 | rep. | 26 10 15 | 626 58 | 26 10 20 |
| | | 35 00 | 26 04 | Serpentis ζ à Capricorni — β | 31 46 40 | 760 87 | 31 47 01 |
| | | | | *Dist. à Vert.* ° ' / *Hor. suppus.* h ' " / *Err. Horol.* ' " | | | |
| | ♃ 7 *vel* | 19 55 33 | Limbi | 63 30 / 19 46 48 / — 08 45 | | | |
| | ♀ 8 | 59 53 | Solis in- | 62 50 / 51 12 / — 08 41 | | | |
| | *mane.* | 20 02 54 | ferioris. | 62::30 | | | |
| | ♀ 8 | 9 14 03 | 9 05 13 | Lunæ limb. remot. ab Humero Aquarii præcedente | 32 04 40 | 767 99 | 32 04 50 |
| | | 17 12 | 08 22 | rep. | 32 03 20 | 767 52 | 32 03 40 |
| | | | | *Tunc nubes.* | | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ♄ Aug. 9 | 9 23 15 | 9 14 47 | Lunæ limb. rem. ab Humero Aquarij præcedente | 18 12 20 | 436 12 | 18 12 27 | |
| | 26 07 | 17 39 | ——— rep. | 18 11 10 | 435 67 | 18 11 20 | |
| | 32 00 | 23 32 | Lunæ limbus proximus ab Aquilæ lucida | 25 15 05 | 604 65 | 25 15 22 | ☽ in ♒ 1°½ Lat. Bor. 4. |
| | 35 10 | 26 42 | ——— rep. | 25 15 05 | 604 65 | 25 15 22 | |
| | 40 52 | 32 24 | Lunæ limb. rem. ab Humero Aquarij præcedente | 18 04 50 | 433 10 | 18 04 54 | |
| | 44 10 | 35 42 | ——— rep. | 18 03 15 | 432 50 | 18 03 24 | |
| | 49 55 | 41 27 | Humerus Aquarij præced. ab Aquilæ lucida | 28 59 20 | 693 97 | 28 59 20 | |
| | | | Part. per Mic. ' " | | | | |
| | 10 23 | 10 14 30 | ☽ Diamet. 6499 = 32 25 | | | | |
| | | | ——— rep. 6490 = 32 22 | | | | |
| ☉ 10 vel ☽ 11 mane. | 13 39 37 | 13 31 29 | Lunæ limb. proxim. à Manu sequente Antinoi | 22 33 10 | 540 01 | 22 33 16 | |
| | 43 21 | 35 13 | ——— rep. | 22 34 35 | 540 50 | 22 34 30 | |
| | 47 30 | 39 22 | Lunæ limbus proximus ab Aquilæ lucida | 32 02 15 | 766 93 | 32 02 10 | ☽ in ♒ 18°½ Lat. Bor. 3½. |
| | 49 52 | 41 44 | ——— rep. | 32 02 55 | 767 23 | 32 02 55 | |
| | 59 00 | 50 52 | Lunæ limbus inferior ab Ore Pegasi | 20 39 50 | 495 18 | 20 40 48 | |
| | 14 01 16 | 53 08 | ——— rep. | 20 39 30 | 495 01 | 20 40 20 | |
| | 07 30 | 59 22 | Lunæ limb. remot. & Markab | 34 05 10 | 816 33 | 34 05 45 | |
| | 10 04 | 14 01 56 | ——— rep. | 34 03 40 | 815 77 | 34 04 21 | |
| | 15 03 | 06 55 | Lunæ limb. prox. ab Aquila | 32 09 45 | 769 90 | 32 09 37 | |
| | 16 52 | 08 44 | ——— rep. | 32 10 00 | 770 04 | 32 09 58 | |
| | 19 35 | 11 27 | Lunæ limb. prox. à Manu Antinoi θ | 22 47 25 | 545 57 | 22 47 20 | |
| | 21 02 | 12 54 | ——— rep. | 22 48 10 | 545 86 | 22 48 03 | |
| | 26 19 | 18 11 | Os Pegasi ab Aquilæ lucida | 25 26 40 | 609 27 | 25 26 57 | |
| | 32 01 | 23 53 | Aquilæ lucida à Markab | 47 46 50 | 1144 37 | 47 47 20 | |
| | | | Dist. à Vert. ° ' — Hor. supp. h. ' " — Err. Horol. ' " | | | | |
| | 20 50 14 | Sol. limbi inferioris | 56 10 — 20 42 23 — − 7 51 | | | | |
| | 52 41 | | 55 50½ — 44 47 — − 7 54 | | | | |
| | 55 04 | | 55 30 — 47 11 — − 7 53 | | | | |
| | 57 31 | | 55 10 — 49 36 — − 7 55 | | | | |
| | 21 00 00 | | 54 50 — 52 02 — − 7 58 | | | | |
| | | | *Deinde post Meridiem.* | | | | |
| ☽ 11 | 3 18 07 | Sol. limbi inferioris | 55 10 — 3 09 52 — − 8 15 | | | | |
| | 20 29 | | 55 30 — 12 13 — − 8 16 | | | | |
| | 25 20 | | 56 10 | | | | |
| | | | Part. per Mic. ' " | | | | |
| | 9 31 | 9 22 55 | ☽ Diamet. 6666 = 33 15 | | | | |
| | 46 55 | 38 50 | ☽ altæ 22° rep. 6669 = 33 16 | bis. | | | |
| | 10 10 08 | 10 02 08 | Lunæ limbus remotus ab Algenib Pegasi | 34 41 20 | 830 66 | 34 41 39 | |
| | 14 10 | 06 10 | ——— rep. | 34 39 25 | 829 90 | 34 39 45 | |
| | 16 30 | 08 30 | Lunæ limb. prox. ab eadem *Luna humiliore quam Fixa.* | 34 04 45 | 816 10 | 34 05 09 | ☽ in ♓ 1°½ Lat. Bor. 3. |
| | 25 15 | 17 15 | Lunæ limb. prox. ab Ore Peg. | 19 17 40 | 462 20 | 19 17 48 | |
| | 28 03 | 20 03 | ——— rep. | 19 17 50 | 462 27 | 19 17 58 | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correctis. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☽ Aug. 11 | 10 33 44 | 10 25 44 | Lunæ limb. prox. ab Algenib Pegasi ——— | 33 57 00 | 812 91 | 33 57 10 |
| | 36 46 | 28 46 | Lunæ limbus remot. ab eadem | 34 29 00 | 825 75 | 34 29 21 |
| | 40 12 | 32 12 | ——— rep. | 34 27 30 | 825 15 | 34 27 51 |
| ♂ 12 | 9 06 00 | 8 58 22 | ☽ Diamet. Part. per Mic. 6678 = ′ 33 ″ 19 | | | |
| | 11 | 9 03 22 | ——— rep. 6680 = 33 19 | | | |
| | 10 03 37 | 55 59 | Lunæ lim. prox. à lucid. Ariet. | 46 58 40 | 1124 93 | 46 58 38 |
| | 15 18 | 10 07 40 | ——— rep. | 46 52 20 | 1122 58 | 46 52 44 |
| | 21 18 | 13 40 | Lunæ limbus prox. à Markab | 17 23 35 | 416 71 | 17 23 50 |
| | 25 24 | 17 46 | ——— rep. | 17 23 30 | 416 66 | 17 23 43 |
| | 31 37 | 23 59 | Lunæ lim. prox. à lucid. Ariet. | 46 44 20 | 1119 33 | 46 44 31 |
| | 34 24 | 26 46 | ——— rep. | 46 43 10 | 1118 88 | 46 43 24 |
| ☽ in ♓ 16°½ Lat. Bor. 2 | 39 05 | 31 27 | Lunæ limbus prox. à Markab *Luna in Nonagesimo.* | 17 22 30 | 416 32 | 17 22 52 |
| | 42 40 | 35 02 | ——— rep. | 17 22 25 | 416 26 | 17 22 43 |
| | 47 16 | 39 38 | Lunæ lim. prox. à lucid. Ariet. | 46 37 10 | 1116 44 | 46 37 16 |
| | 51 14 | 43 36 | ——— rep. | 46 35 10 | 1115 66 | 46 35 19 |
| | | | Dist. à Vert. ° ′ | | | |
| ☿ 13 vel | 20 44 43 | Sol. limbi inferioris ——— | 57 40 | | | |
| | 48 20 | | 57 10 | | | |
| ♃ 14 | 50 41 | | 56 50 | | | |
| mane. | 53 05 | | 56 30 | | | |
| ♃ 14 | | | Post Solis occasum Luna texerat 13 ♓ iscium, cujus post emersionem captæ Distantiæ | Part. per Micr. | ′ ″ | |
| | 9 59 21 | 9 52 19 | Stellæ à Confinio ——— | 5327 | = 26 37 | |
| | 10 02 38 | 55 36 | ——— rep. | 5755 | = 28 43 | |
| | 09 14 | 10 02 12 | Lunæ Diameter ——— | 6628 | = 33 04 | |
| | 13 46 | 06 44 | ——— rep. | 6617 | = 33 00 | |
| | | | | ° ′ ″ | Revol. Cent. | |
| | 11 05 16 | 10 58 16 | Lunæ limb. rem. ab Aquarij λ | 39 59 35 | 957 84 | 39 59 36 |
| | 09 53 | 11 02 53 | ——— rep. | 40 01 55 | 958 88 | 40 02 12 |
| | 16 05 | 09 05 | ☽ limb. rem. à Cap. Androm. | 27 27 05 | 657 23 | 27 27 18 |
| ☽ in ♈ 16°½ Lat. Aust. 0½. | 18 44 | 11 44 | ——— rep. | 27 27 35 | 657 43 | 27 27 48 |
| | 23 28 | 16 28 | Lunæ limb. rem. ab Aquarij λ | 40 09 35 | 961 86 | 40 09 55 |
| | 26 44 | 19 44 | ——— rep. | 40 11 10 | 962 44 | 40 11 22 |
| | 34 00 | 27 00 | Caput Androm. ab Aquarij λ | 40 57 20 | 981 02 | 40 57 57 |
| | | | Dist. à Vert. ° ′ — Hora supp. h. ′ ″ — Err. Horol. ′ ″ | | | |
| ♀ 15 mane. | 19 55 50 | Sol. limbi inferioris ——— | 65 00 — 19 49 07 — − 6 43 | | | |
| | 59 09 | | 64 30 — 52 27 — − 6 42 | | | |
| | 20 02 29 | | 64 00 — 55 47 — − 6 42 | | | |
| | 05 56 | | 63 30 — 59 09 — − 6 47 | | | |
| | 09 16 | | 63 00 — 20 02 31 — − 6 45 | | | |
| | 12 37 | | 62 30 — 05 54 — − 6 44 | | | |
| ♀ 15 | 4 00 30 | Sol. limbi inferioris ——— | 62 30 — 3 53 29 — − 7 01 | | | |
| | 03 24 | | 63 00 — 56 22 — − 7 02 | | | |
| | 07 11 | | 63 30 — 4 00 14 — − 6 57 | | | |
| | 10 39 | | 64 00 — 03 36 — − 7 03 | | | |
| | 13 58 | | 64 30 — 06 56 — − 7 02 | | | |
| | 17 16 | | 65 00 — 10 17 — − 6 59 | | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ′ | Hor. supput. h. ′ ″ | Err. Horol. ′ ″ | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|---|---|---|
| ♀ Aug. 15 | | | *Differentiæ rursus pomeridianæ majores prodeunt matutinis 20″ ut Die 11. Error ergò Instrumenti 1′ 1/10 ferè.* | | | | | | | |
| | 14 15 37 | 14 08 44 | Lunæ limbus prox. à lucida Plejadum | | | | 22 52 50 | 547 74 | 22 52 48 | |
| | 18 12 | 11 19 | rep. | | | | 22 51 35 | 547 26 | 22 51 36 | |
| | 22 26 | 15 13 | Lunæ limbus remotus à Cingulo Andromedæ — *Luna in Nonagesimo.* | | | | 28 59 35 | 693 97 | 28 59 20 | ☽ in ♉ 3° Lat. Aust. 2. |
| | 24 26 | 17 33 | rep. | | | | 28 59 50 | 694 10 | 28 59 40 | |
| | 27 30 | 20 37 | Lunæ limbus proximus à lucida Plejadum | | | | 22 47 25 | 545 58 | 22 47 24 | |
| | 30 41 | 23 48 | rep. | | | | 22 45 45 | 544 89 | 22 45 40 | |
| | 35 30 | 28 37 | Lunæ limb. prox. à Jove | | | | 7 15 10 | 173 53 | 7 15 03 | |
| | 37 49 | 30 56 | rep. | | | | 7 13 45 | 173 05 | 7 13 51 | |
| | 57 00 | 50 07 | Lucida Plejadum à Cingulo Andromedæ | | | | 35 49 30 | 857 72 | 35 49 15 | |
| ☉ 17 vel | 17 19 00 | 17 13 00 | Lunæ limbus remotus & sequens à Jove | | | | 22 34 35 | 540 60 | 22 34 50 | |
| ☽ 18 | 21 48 | 15 48 | rep. | | | | 22 35 55 | 541 11 | 22 36 06 | |
| mane. | 23 11 | 17 11 | iterùm | | | | 22 36 35 | 541 39 | 22 36 48 | |
| ☿ 20 | 19 41 57 | Limbi Solis inferioris. | | 68 30 | 19 37 04 | — 4 53 | | | | |
| vel | 45 17 | | | 68 00 | 40 22 | — 4 55 | | | | |
| ♃ 21 | 48 33 | | | 67 30 | 43 42 | — 4 51 | | | | |
| mane. | 51 56 | | | 67 00 | 47 02 | — 4 54 | | | | |
| | 55 18 | | | 66 30 | 50 23 | — 4 55 | | | | |
| | 22 42 35 | 22 37 27 | Lunæ limb. prox. à ☉is prox. | | | | 52 16 00 | 1251 67 | 52 16 15 | |
| | 45 54 | 40 46 | rep. | | | | 52 14 40 | 1251 14 | 52 14 55 | |
| | 49 16 | 44 08 | Lunæ limb. prox. à Solis rem. | | | | 52 45 50 | 1263 58 | 52 46 02 | |
| | 51 10 | 46 02 | rep. | | | | 52 44 50 | 1263 34 | 52 45 26 | ☽ in ♋ 25°½ |
| | 54 44 | 49 36 | iter. per *Fabrum* | | | | 52 43 40 | 1262 74 | 52 43 56 | Lat. Aust. 5⅓. |
| ♃ 21 | 4 17 38 | Sol. limbi inferioris | | 67 00 | 4 12 17 | — 5 21 | | | | |
| | 20 58 | | | 67 30 | 15 37 | — 5 21 | | | | |
| | 24 19 | | | 68 00 | 18 57 | — 5 22 | | | | |
| vel | 27 40 | | | 68 30 | 22 16 | — 5 24 | | | | |
| | 16 13 04 | 16 08 08 | Lunæ limbus remotus à lucido Pede Orionis | | | | 48 03 50 | 1150 99 | 48 03 52 | |
| ♀ 22 mane. | 17 04 | 12 08 | rep. | | | | 48 05 10 | 1151 57 | 48 05 17 | |
| | 22 09 | 17 13 | Lunæ limb. rem. à Castore | | | | 18 49 30 | 450 83 | 18 49 20 | |
| | 24 04 | 19 08 | rep. | | | | 18 49 45 | 450 98 | 18 49 42 | |
| | 33 20 | 28 24 | Lunæ limbus remotus à Pede lucido Orionis | | | | 48 11 40 | 1154 18 | 48 10 52 | ☽ in ♌ 7° |
| | 37 05 | 32 09 | rep. | | | | 48 13 10 | 1154 72 | 48 13 13 | Lat. Aust. 5[illegible] |
| | 44 55 | 40 01 | Castor à Pede lucido Orionis | | | | 52 12 30 | 1250 27 | 52 12 44 | |
| | | | rep. | | | | 52 12 30 | 1250 25 | 52 12 41 | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☉ Oct. 19 vel | 16 48 07 | 16 38 32 | Lunæ limb. rem. à Corde Hydræ | 33 34 20 | 803 70 | 33 34 07 |
| ☽ 20 | 50 49 | 41 14 | rep. | 33 35 20 | 804 03 | 33 34 57 |
| mane | 58 03 | 48 28 | Lunæ limb. remot. à lucida in lumbis Leonis | 22 23 55 | 536 28 | 22 23 58 |
| | | | *Stella 25ª Leonis, cujus locus Tychonicus nunc Virginis 20° 33′ Latit. 3° 2′ ½ Aust. nunc emergebat è limbo Lunæ sub qua horam ferè delituisset.* | | | |
| | 17 02 52 | 53 17 | Lunæ limb. rem. à lucid. in lumbis Leonis | 22 25 40 | 536 95 | 22 25 40 |
| | 03 45 | 54 10 | 26ª Leonis υ, ab eadem lucida | 22 03 45 | 528 27 | 22 03 51 |
| | 08 49 | 59 14 | Lunæ limb. remot. à Corde Hydræ | 33 41 40 | 806 62 | 33 41 25 |
| | 12 35 | 17 03 00 | rep. | 33 43 00 | 807 11 | 33 42 39 |
| | 15 15 | 05 40 | 26ª Leonis à Corde Hydræ | 33 08 25 | 793 30 | 33 08 07 |
| | | | *Micrometro deindè & Tubo pedum 16.* | Part. per Mic. | ′ ″ | |
| | 23 22 | 13 47 | 26ª Leonis à limb. obscuro | 2219 | = 11 04 | |
| | 28 18 | 18 39 | rep. | 2635 | = 13 09 | |
| | 31 25 | 21 50 | 26ª Leonis à Cornu Austral. | 6305 | = 31 27 | |
| | 33 28 | 23 53 | rep. | 6465 | = 32 15 | |
| | 35 26 | 25 51 | 26ª Leonis à Cornu Boreo | 7408 | = 36 57 | |
| | 37 20 | 27 45 | rep. | 7533 | = 37 34 | |
| | 38 44 | 29 09 | 26ª Leonis à Cornu Austral. | 6820 | = 34 01 | |
| | 41 00 | 31 25 | rep. | 7055 | = 35 11 | |
| | 43 41 | 34 06 | Lunæ Diameter | 5937 | = 29 37 | |
| | 51 10 | 41 35 | rep. | 5955 | = 29 42 | |
| | | N.B. * | *Quadrante deindè proprio pedum plus quam 4 Radio, distantiæ à Vertice observatæ.* | | | |
| | | | *Dist. à Vert.* ° ′ ″ — *Hora supput.* h. ′ ″ — *Err. Hor.* ′ ″ | | | |
| | 21 04 09 | Limbi Solis inferioris | 77 00 20 — 20 54 27 — −9 42 | | | |
| | 07 58 | | 76 34 40 — 58 18 — −9 40 | | | |
| | 13 01 | | 76 02 20 — 21 03 14 — −9 47 | | | |
| | 16 02 | | 75 42 50 — 〃 06 18 — −9 44 | | | |
| ☽ Oct. 20 | 0 08 20 | 23 58 30 | Lunæ limb. prox. à Solis proximo | 43 13 00 | 1034 83 | 43 12 48 |
| | 12 12 | 0 02 22 | rep. | 43 11 25 | 1034 25 | 43 11 20 |
| | 15 03 | 05 13 | Lunæ limb. prox. à Solis remoto | 43 42 40 | 1046 76 | 43 42 40 |
| | 16 58 | 07 08 | rep. | 43 41 50 | 1046 41 | 43 41 48 |
| | 19 06 | 09 16 | iterùm. | 43 41 10 | 1046 10 | 43 41 02 |
| | | | *Dist. à Vert.* ° ′ ″ — *Hor. Supput.* h. ′ ″ — *Err. Hor.* ′ ″ | | | |
| ♄ Nov. 1 | 7 22 52 | Lucidæ Arietis | 51 17 20 — 7 01 39 — −21 13 | | | |
| | 26 32 | | 50 43 40 — 05 22 — −21 10 | | | |
| | 28 06 | | 50 21 20 — 07 50 — −21 16 | | | |
| | 32 20 | | 49 51 50 — 11 07 — −21 13 | | | |
| | 35 37 | | 49 22 20 — 14 24 — −21 12 | | | |

Marginal notes: beside Oct. 19/20 mane: ☽ in ♍ 20° 4/7 Lat. Aust. 3. — beside the micrometer observations: *Vide Fig. 123.* — beside Oct. 20: ☽ in ♍ 23° Lat. Aust. 3.

| ANNO CHRISTI 1679. Styl. Vet. | Tempora per Horologium Oscillator. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ♄ Nov. 1 | 7 59 00 | 7 37 46 | Lunæ limb. rem. & succedens in aqua Aquarii λ | 11 41 40 | 279 98 | 11 41 35 | |
| | 8 02 46 | 41 32 | ——— rep. | 11 40 30 | 279 53 | 11 40 27 | |
| | 10 12 | 48 58 | Lunæ limb. prox. ab Ore Peg. | 18 31 10 | 443 59 | 18 31 10 | ☽ in ♒ 26° ½ Lat. Bor. 3½. |
| | 13 12 | 51 58 | ——— rep. | 18 31 00 | 443 53 | 18 31 02 | |
| | 19 08 | 57 54 | Lunæ limb. rem. ab Aquarii λ | 11 33 10 | 276 71 | 11 33 22 | |
| | 22 44 | 8 01 30 | ——— rep. | 11 31 55 | 276 18 | 11 32 03 | |
| | 27 54 | 06 40 | Os Pegasi ab Aquarii λ ——— | 24 23 25 | 584 06 | 24 23 46 | |
| | 10 00 34 | 9 39 20 | ☽ᵉ Diam. Part. per Mic. 6441 = ' " 32 08 | | | | |
| | | | Dist. à Vert. h. ' " · Hor. suppos. h. ' " · Err. Horol. ' " | | | | |
| ♀ 7 | 7 17 58 | | 49 20 00 · 6 50 00 · —27 58 | | | | |
| | 19 58 | Lucidæ Arietis | 49 01 50 · 52 03 · —27 55 | | | | |
| | 22 12 | | 48 42 20 · 54 13 · —27 58 | | | | |
| | 24 19 | | 48 23 00 · 56 23 · —27 56 | | | | |
| | 26 40 | | 48 02 20 · 58 43 · —27 57 | | | | |
| | 8 05 52 | 7 37 52 | Lunæ limb. proximus à Jove | 21 30 10 | 514 78 | 21 29 58 | |
| | 08 38 | 40 38 | ——— rep. | 21 31 40 | 515 41 | 21 31 33 | |
| | 15 27 | 47 27 | Lunæ limb. prox. à Capella | 34 17 55 | 821 25 | 34 18 01 | |
| | 17 28 | 49 28 | ——— rep. | 34 17 25 | 821 02 | 34 17 27 | |
| | 21 33 | 53 33 | Lunæ limb. proximus à Jove | 21 38 35 | 518 29 | 21 38 48 | |
| | 24 01 | 56 01 | ——— rep. | 21 40 25 | 518 93 | 21 40 24 | ☽ in ♉ 24° Lat. Aust. 5. |
| | 26 17 | 58 17 | Lunæ limb. remot. à Jove — | 22 15 15 | 532 89 | 22 15 28 | |
| | | | *Plena enim erat, & sparsæ nubes ab aliis Fixis rimari non permisere.* | | | | |
| ☉ 9 | 15 13 01 | 14 42 31 | Lunæ limb. prox. à seq. humero Aurigæ ——— | 26 41 55 | 639 25 | 26 42 10 | |
| | 15 40 | 45 10 | ——— rep. | 26 41 55 | 639 24 | 26 42 09 | |
| | 22 03 | 51 33 | Lunæ limb. rem. ab oculo Boreo Tauri ——— | 24 19 10 | 582 42 | 24 19 40 | |
| | 29 12 | 58 42 | Lunæ limb. prox. ab humero Aurigæ, ——— | 26 42 55 | 639 64 | 26 43 09 | ☽ in ♊ 28° Lat. Aust. 5½ |
| | 31 37 | 15 01 07 | ——— rep. | 26 43 05 | 639 72 | 26 43 21 | |
| | | | Dist. à Vert. ° ' " · Hor. suppos. h. ' " · Err. Horol. ' " | | | | |
| ♂ 11 | 7 08 51 | | 49 00 20 · 6 36 32 · —32 19 | | | | |
| | 10 48 | Lucidæ Arietis | 48 42 50 · 38 29 · —32 19 | | | | |
| | 13 08 | | 48 21 50 · 40 52 · —32 16 | | | | |
| | 15 21 | | 48 02 00 · 43 06 · —32 15 | | | | |
| | 17 38 | | 47 42 50 · 45 16 · —32 22 | | | | |
| | | | *Die sequente retraxi Indicem minutorum 40', quem à Kalendis Januarii præcedentis, nunquàm attigeram, nec mutaveram.* | | | | |

| | Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ′ ″ | Hor. suppat. h. ′ ″ | Err. Horol. ′ ″ | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|---|
| | ☉ Nov. 30 | 15 05 52 | | Caudæ Leonis | 54 02 00 | 14 50 36 | —15 16 | | | |
| | | 09 14 | | | 53 32 50 | | | | | |
| | | 12 39 | | | 53 03 00 | 57 24 | —15 15 | | | |
| | | 16 10 | | | 52 32 40 | 15 00 55 | —15 15 | | | |
| | | 19 40 | | | 52 02 50 | 04 24 | —15 16 | | | |
| | ♂ Dec. 2 | 5 16 00 | 5 00 00 | ☽ Diam. 6557 Part. per Mic. = 32′ 43″ | | | | | | |
| | | 44 34 | 28 04 | Lunæ limb. prox. ab hum. Aquarii sequente | | | | 50 09 45 | 1201 21 | 50 09 44 |
| | | 49 00 | 32 30 | rep. | | | | 50 11 55 | 1202 18 | 50 12 09 |
| | | 52 30 | 36 00 | Lunæ limb. prox. à lucida in collo Andromedæ ♪ | | | | 25 01 45 | 599 18 | 25 01 40 |
| ☽ in ♈ 18°; Lat. Aust. 1. | | 55 19 | 38 49 | rep. | | | | 25 02 10 | 599 32 | 25 02 02 |
| | | 59 10 | 42 40 | Lunæ limb. prox. ab hum. Aquarii sequente | | | | 50 16 10 | 1203 83 | 50 16 16 |
| | | 6 01 35 | 5 45 05 | rep. | | | | 50 17 20 | 1204 29 | 50 17 25 |
| | | 10 11 36 | | | 50 57 50 | 9 54 55 | —16 41 | | | |
| | | 13 58 | | | 50 35 10 | 57 20 | —16 38 | | | |
| | | 16 20 | | Pollucis | 50 13 10 | 59 41 | —16 39 | | | |
| | | 19 25 | | | 49 44 20 | 10 02 45 | —16 40 | | | |
| | | 21 39 | | | 49 23 20 | 05 02 | —16 37 | | | |
| | ANNO CHRISTI MDCLXXX. | | | Appulsum Lunæ ad sextam Cancri, cujus locus Tychonicus est Leonis 9° 9′; Lat. Aust. 5° 8′; me Londini absente, *Faber* observavit ut sequitur. | | | | | | |
| | ♂ Jan. 6 | 7 10 44 | | | 52 31 10 | 7 11 19 | + 0 35 | | | |
| | | 15 52 | | | 51 42 45 | 16 30 | + 0 38 | | | |
| | | 19 43 | | Pollucis | 51 05 50 | 20 24 | + 0 41 | | | |
| | | 23 22 | | | 50 31 50 | 24 05 | + 0 43 | | | |
| | | 26 48 | | | 50 00 05 | 27 25 | + 0 37 | | | |
| | | 48 00 | 7 48 40 | Lunæ Diameter | | | | Part. per Mic. 6260 | = 31′ 14″ | |
| | | 53 00 | 53 40 | rep. | | | | 6261 | = 31 14 | |
| | | 8 01 06 | 8 01 45 | Stella à limbo proximo | | | | 4579 | = 22 51 | |
| | | 04 12 | 04 51 | rep. | | | | 4261 | = 21 16 | |
| Vide Fig. 124. | | 06 26 | 07 05 | iter. | | | | 4126 | = 20 35 | |
| | | 09 30 | 10 09 | iter. | | | | 3728 | = 18 36 | |
| | | 13 28 | 14 07 | | | | | 3340 | = 16 40 | |
| | | 24 30 | 25 09 | | | | | 2263 | = 11 16 | |
| | | 34 46 | 35 25 | | | | | 1319 | = 06 35 | |
| | | 40 20 | 40 59 | | | | | 0844 | = 04 13 | |
| | | 45 04 | 45 43 | | | | | 0408 | = 02 02 | |
| | | 50 00 | 50 39 | Immersio ad montem Climacem Hevelii. | | | | | | |
| | | 9 55 40 | 9 56 19 | Emersio inter Insulam Majorem & Montem Tancon. | | | | | | |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| | | | | Part. per Mic. | ' " | | |
| ♂ Jan. 6 | 9 58 56 | 9 59 35 | Stella à limbo proximo —— | 317 | = 01 25 | | |
| | 10 10 34 | 11 13 | Per nubeculas ———— rep. | 1272 | = 06 21 | | |
| | | | Dist. à Vert. ° ' " — Hora supp. h. ' " — Err. Horol. ' " | | | | |
| ☉ Feb. 8 | 21 01 46 | Sol. limbi inferioris | 72 31 50 — 21 13 33 — +11 47 | | | | |
| | 04 47 | | 72 12 20 — 16 34 — +11 47 | | | | |
| | 07 55 | | 71 53 10 — 19 41 — +11 46 | | | | |
| | 11 30 | | 71 31 10 — 23 15 — +11 45 | | | | |
| ☽ 9 vel | 16 24 40 | 16 36 55 | Lunæ limb. rem. ab Arcturo | 32 51 45 | 786 64 | 32 51 28 | |
| | 31 01 | 43 16 | —————— rep. | 32 52 45 | 787 04 | 32 52 28 | |
| ♂ 10 mane. | 35 30 | 47 45 | Lunæ limb. rem. à Spica Virginis —— | 15 33 20 | 372 77 | 15 33 46 | ☽ in ♏ 4° Lat. Bor. 1 |
| | 39 08 | 51 23 | —————— rep. | 15 35 05 | 373 36 | 15 35 15 | |
| | 46 46 | 59 01 | Lunæ limb. rem. ab Arcturo | 32 54 55 | 787 91 | 32 54 39 | |
| | 50 14 | 17 02 29 | —————— rep. | 32 55 25 | 788 10 | 32 55 07 | |
| ♂ 10 vel | 17 36 05 | 17 48 55 | Lunæ limb. rem. à Virginis γ | 41 02 30 | 982 93 | 41 02 45 | |
| | 39 38 | 52 28 | —————— rep. | 41 03 35 | 983 36 | 41 03 50 | |
| ☿ 11 mane. | 44 30 | 57 20 | Lunæ limb. rem. à Bootis ε | 43 51 35 | 1050 18 | 43 51 15 | ☽ in ♏ 16°½ Lat. Bor. 2¼. |
| | 47 22 | 18 00 12 | —————— rep. | 43 52 05 | 1050 36 | 43 51 42 | |
| | 50 24 | 03 14 | Lunæ limb. rem. à Virginis γ | 41 07 20 | 985 01 | 41 07 57 | |
| | 53 08 | 06 00 | —————— rep. | 41 08 10 | 985 34 | 41 08 46 | |
| | | | Pars. per Mic. ' " | | | | |
| | 18 39 32 | 52 22 | ☽ᵃ Diam. 5945 = 29 39 | | | | |
| | 41 00 | 53 50 | —— rep. 5944 = 29 39 | | | | |
| | | | Dist. à Vert. ° ' " — Hora supp. h. ' " — Err. Horol. ' " | | | | |
| | 20 54 10 | | 72 34 50 — 21 07 04 — +12 54 | | | | |
| | 57 13 | | 72 15 10 — 10 04 — +12 51 | | | | |
| | 59 29 | Sol. limbi inferioris | 72 00 00 — 12 24 — +12 55 | | | | |
| | 21 02 08 | | 71 43 30 — 15 03 — +12 55 | | | | |
| | 05 14 | | 71 24 00 — 18 03 — +12 49 | | | | |
| ☿ 11 | 2 43 39 | Limbi Solis inferioris | 72 55 00 — 2 56 48 — +13 09 | | | | |
| | 46 15 | | 73 13 00 — 59 24 — +13 09 | | | | |
| | 49 13 | | 73 33 00 — 3 02 21 — +13 08 | | | | |
| | 52 05 | | 73 52 50 — 05 16 — +13 11 | | | | |
| ♃ 12 vel | 18 10 30 | 18 24 30 | Lunæ limbus proximus à Venere —— | 37 55 50 | 908 11 | 37 55 16 | |
| ♀ 13 mane | 13 09 | 27 09 | —————— rep. | 37 54 50 | 907 43 | 37 53 35 | |
| ♃ 19 vel | | | Promovi indices horologiorum 30', & longitudines pendulorum effeci aliquantulùm breviores, observatæ deinde distantiæ à Vertice. | | | | |
| | | | Dist. à Vert. ° ' " — Hor. supput. h. ' " — Err. Horol. ' " | | | | |
| ♀ 20 mane | 21 06 07 | Sol. limbi inferioris | 71 02 20 — 20 54 28 — −11 39 | | | | |
| | 08 59 | | 70 42 50 — 57 21 — −11 38 | | | | |
| | 11 46 | | 70 23 00 — 21 00 11 — −11 35 | | | | |
| | 14 42 | | 70 02 35 — 03 08 — −11 34 | | | | |

| | Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta h. ' " | LUNÆ DISTANTIÆ à FIXIS. | | | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Dist. à Vert. ° ' " | Hor. supput. h ' " | Err. Horol. ' " | | | |
| | ☉Feb. 29 *vel* ☽Mart. 1 *mane* | 20 04 13 | Sol. limbi inferioris | 75 25 05 | 19 55 42 | — 8 31 | | | |
| | | 07 08 | | 75 00 30 | 58 38 | — 8 30 | | | |
| | | 11 39 | | 74 23 30 | 20 03 04 | — 8 35 | | | |
| | ☽Mart. 1 | 7 23 04 | 7 14 44 | Lunæ limb. prox. à Polluce | | | 26 37 40 | 637 56 | 26 37 57 |
| | | 26 14 | 17 54 | ——— rep. | | | 26 39 00 | 638 08 | 26 39 15 |
| | | 31 26 | 23 06 | Lunæ limb. rem. à lucid. in juba Leonis γ | | | 18 24 10 | 440 81 | 18 24 12 |
| | | 34 00 | 25 40 | ——— rep. | | | 18 23 40 | 440 60 | 18 23 40 |
| ☽ in ♌ 13° Lat. Aust. 4½. | | 39 17 | 30 57 | Lunæ limb. prox. à Polluce | | | 26 43 40 | 639 95 | 26 43 55 |
| | | 43 14 | 34 54 | ——— rep. | | | 26 45 25 | 640 64 | 26 45 40 |
| | | 47 10 | 38 50 | Lucida in Juba Leonis à Polluce | | | 36 01 55 | 862 72 | 36 01 45 |
| | *vel* | | | | | | | | |
| | | | | Dist. à Vert. ° ' " | Hor. supputat. h. ' " | Err. Horol. ' " | | | |
| | ♂ 2 *mane* | 20 26 11 | Sol. limbi inferioris | 72 01 00 | 20 18 02 | — 8 09 | | | |
| | | 28 48 | | 71 40 00 | 20 38 | — 8 10 | | | |
| | | 31 01 | | 71 22 20 | 22 50 | — 8 11 | | | |
| | | 33 42 | | 71 01 00 | 25 31 | — 8 11 | | | |
| | | 37 21 | | 70 32 30 | 29 08 | — 8 13 | | | |
| | | 41 09 | | 70 02 20 | 32 58 | — 8 11 | | | |
| | ♂ 2 | 7 51 06 | 7 43 06 | Lunæ limb. prox. à Procyone | | | 35 49 40 | 857 78 | 35 49 22 |
| | | 53 59 | 45 49 | ——— rep. | | | 35 50 45 | 858 25 | 35 50 33 |
| ☽ in ♌ 26° Lat. Aust. 4. | | 58 17 | 50 17 | Lunæ limbus proximus à Leonis ε | | | 16 43 40 | 400 78 | 16 43 54 |
| | | 8 00 22 | 52 22 | ——— rep. | | | 16 44 00 | 400 92 | 16 44 15 |
| | | 03 12 | 55 12 | Lunæ limb. prox. à Procyone | | | 35 53 55 | 859 59 | 35 53 54 |
| | | 05 37 | 57 37 | ——— rep. | | | 35 54 50 | 859 96 | 35 54 50 |
| | | 10 50 | 8 02 39 | Procyon à Leonis ε ——— | | | 35 33 00 | 851 37 | 35 33 21 |
| | | 15 50 | 07 40 | Cor Leonis ab ejusdem ε ——— | | | 12 58 40 | 310 68 | 12 58 24 |
| | | | | | Part. per Mic. | ' " | | | |
| | ♃ 4 | 8 33 14 | 8 25 54 | ☽ⁱˢ Diam. | 6012 | =29 59 | | | |
| | | 38 48 | 31 28 | ——— rep. | 6019 | =30 01 | | | |
| | | 9 51 56 | 9 44 38 | Lunæ limb. rem. ab Arcturo | | | 42 46 05 | 1024 13 | 42 45 58 |
| | | 55 21 | 48 03 | ——— rep. | | | 42 45 15 | 1023 82 | 42 45 12 |
| | | 10 01 26 | 54 08 | Lunæ limbus rem. à Juba Leonis γ | | | 29 02 50 | 695 33 | 29 02 44 |
| | | 09 36 | 10 02 18 | ——— rep. | | | 29 05 50 | 696 48 | 29 05 36 |
| ☽ in ♌ 22° Lat. Aust. 2. | | 14 28 | 07 10 | ——— iter. | | | 29 07 20 | 697 22 | 29 07 27 |
| | | 27 45 | 20 27 | Lunæ limb. rem. ab Arcturo | | | 42 38 10 | 1021 21 | 42 38 39 |
| | | | | Dist. à Vert. ° ' " | Hor. supput. h ' " | Err. Horol. ' " | | | |
| | ☿ 5 *vel* ♄ 6 *mane.* | 20 46 38 | Limbi Solis inferioris | 67 47 50 | 20 39 52 | —6 46 | | | |
| | | 50 06 | | 67 21 20 | 43 17 | —6 49 | | | |
| | | 52 40 | | 67 01 50 | 45 51 | —6 49 | | | |
| | | 55 37 | | 66 39 40 | 48 47 | —6 50 | | | |
| | | 58 14 | | 66 20 00 | 51 27 | —6 47 | | | |

| Anno Christi 1680 Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ' | | | | |
| ☉ Mar. 21 | 21 35 19 | Sol. limbi inferioris. | 55 42 40 | | | | |
| | 37 36 | | 55 26 50 | | | | |
| | 42 30 | | 54 55 00 | | | | |
| | 46 08 | | ::54 32 00 | | | | |
| | 22 16 19 | 22 15 29 | Lunæ limb. prox. à Solis rem. | 28 33 25 | 683 62 | 28 33 24 | |
| | 19 46 | 18 59 | ——— rep. | 28 35 45 | 684 49 | 28 35 35 | ☽ in ♉ 10°½ Lat. Aust. 3. |
| | 23 09 | 22 19 | Lunæ limb. prox. à Solis prox. | 28 04 25 | 672 22 | 28 04 52 | |
| | 26 27 | 25 37 | ——— rep. | 28 06 00 | 672 76 | 28 06 13 | |
| | | | *Eodem die post Meridiem.* | | | | |
| ☽ 22 | 8 11 51 | 8 11 09 | Lunæ limb. rem. à Pede lucido Orionis ——— | 37 15 10 | 891 90 | 37 14 43 | |
| | 14 41 | 14 00 | ——— rep. | 37 13 35 | 891 38 | 37 13 25 | |
| | 28 19 | 27 38 | Lunæ limb. remot. à Pede boreo Aurigæ ——— | 29 45 15 | 712 44 | 29 45 35 | |
| *vel* | 30 42 | 30 00 | ——— rep. | 29 43 50 | 711 86 | 29 44 06 | |
| | 38 15 | 37 33 | Lunæ limb. rem. à Rigel rep. | 37 02 45 | 887 05 | 37 02 31 | |
| | 39 40 | 38 58 | ——— iter. | 37 02 00 | 886 73 | 37 01 48 | |
| | | | Dist. à Vert. ° ' " / Hor. suppu. h. ' " / Err. Horol. ' " | | | | |
| ♂ 23 *mane.* | 20 45 00 | Sol. limbi inferioris. | 61 32 20 / 20 44 31 / — 0 29 | | | | |
| | 48 29 | | 61 04 20 / 48 02 / — 0 27 | | | | |
| | 52 46 | | 60 31 10 / 52 15 / — 0 31 | | | | |
| | 55 31 | | 60 09 30 / 55 01 / — 0 30 | | | | |
| | 57 48 | | 59 52 00 / 57 17 / — 0 31 | | | | |
| ♂ 23 | 2 01 00 | 2 00 35 | Lunæ limb. prox. à Solis rem. | 44 21 05 | 1062 41 | 44 21 53 | |
| | 03 56 | 03 31 | ——— rep. | 44 22 35 | 1062 97 | 44 23 16 | |
| | 05 45 | 05 20 | Lunæ limb. prox. à Solis prox. | 43 51 45 | 1050 43 | 43 51 52 | |
| | 08 28 | 08 03 | ——— rep. | 43 52 45 | 1050 87 | 43 52 58 | |
| | 8 07 34 | 8 07 14 | Lunæ limb. rem. à præced. in Cingulo Orionis ——— | 25 17 10 | 605 45 | 25 17 24 | |
| | 10 16 | 09 56 | ——— rep. | 25 16 05 | 605 00 | 25 16 15 | ☽ in ♊ 10 Lat. Aust. 4½. |
| | 16 00 | 15 40 | Lunæ limb. remot. à Pede boreo Aurigæ ——— | 19 08 05 | 458 51 | 19 07 52 | |
| | 18 23 | 18 03 | ——— rep. | 19 07 15 | 458 24 | 19 07 52 | |
| | 22 30 | 22 10 | Lunæ limb. rem. à præced. in Cingulo Orionis ——— | 25 10 55 | 602 94 | 25 11 06 | |
| | 24 31 | 24 11 | ——— rep. | 25 10 05 | 602 59 | 25 10 14 | |
| ☿ 24 | 1 18 56 | 1 18 53 | Lunæ limb. prox. à Solis rem. | 57 49 25 | 1385 05 | 57 49 40 | |
| | 21 50 | 21 47 | ——— rep. | 57 50 35 | 1385 52 | 57 50 51 | |
| | 23 49 | 23 46 | Lunæ limb. prox. à Solis prox. | 57 19 35 | 1373 13 | 57 19 52 | |
| | 25 40 | 25 37 | ——— rep. | 57 20 35 | 1373 48 | 57 20 45 | |
| | | | Dist. à Vert. ° ' | | | | |
| | 3 40 37 | Sol. limbi inferioris — | 64 36 20 | | | | |
| | 43 35 | | 65 01 20 | | | | |
| | 46 48 | | 65 28 40 | | | | |
| | 49 47 | | 65 53 40 | | | | |
| | 52 51 | | 66 20 20 | | | | |

| | Anno Christi 1680. Styl. Vet. | Tempora per Horolog. Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas Diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ☿ Mar. 24 | 8 17 26 | 8 17 29 | Lunæ limb. rem. à lucido Pede Geminorum —— | 19 18 25 | 462 58 | 19 18 46 |
| | | 20 25 | 20 28 | —————— rep. | 19 16 55 | 461 99 | 19 17 18 |
| | | 26 48 | 26 51 | Lunæ limbus remot. à Pede boreo Aurigæ —— | 15 58 40 | 382 71 | 15 58 39 |
| ☽ in ♊ 15°⅔ Lat. Aust. 5¼. | | 29 50 | 29 53 | —————— rep. | 15 59 10 | 382 93 | 15 59 12 |
| | | 33 10 | 33 13 | Lunæ limbus rem. à Pede Geminorum lucido γ — | 19 09 45 | 459 20 | 19 10 18 |
| | vel | 34 46 | 34 49 | —————— rep. | 19 08 45 | 458 82 | 19 09 19 |
| | | 39 41 | 39 44 | Lucidus Pes Gemin. γ, à Pede boreo Aurigæ ι, — | 28 12 45 | 675 54 | 28 13 10 |
| | | | | Dist. à Vert. ° ′ ″ | | | |
| | | 20 57 02 | Sol. limbi inferioris — | 59 13 00 | | | |
| | ♃ 25 | 59 55 | | 58 51 00 | | | |
| | mane. | 21 02 20 | | 58 32 20 | | | |
| | | 04 47 | | 58 13 30 | | | |
| | | 07 48 | | 57 50 50 | | | |
| | ♃ 25 | 8 13 00 | 8 13 25 | Lunæ limb. rem. à Procyone | 23 45 15 | 568 85 | 23 45 40 |
| | | 15 27 | 15 51 | —————— rep. | 23 44 15 | 568 43 | 23 44 37 |
| | | 21 14 | 21 39 | Lunæ limb. prox. ab Humero sequente Orionis | 11 18 05 | 270 90 | 11 18 50 |
| ☽ in ♊ 29°½ Lat. Aust. 5½. | | 24 06 | 24 31 | —————— rep. | 11 18 30 | 271 12 | 11 19 22 |
| | | 28 30 | 28 55 | Lunæ limb. rem. à Procyone | 23 38 25 | 566 08 | 23 38 45 |
| | | 31 35 | 32 00 | —————— rep. | 23 37 00 | 565 50 | 23 37 18 |
| | | 35 39 | 36 04 | Procyon ab Hum. seq. Orionis | 26 00 50 | 622 98 | 26 01 21 |
| | | 37 54 | 38 19 | —————— rep. | 26 00 35 | 622 90 | 26 01 09 |
| | | | | Part. per Mic. ′ ″ | | | |
| | | 58 20 | 58 45 | ☽ Diam. 6459 =32 13 | | | |
| | | 9 02 12 | 9 02 37 | —— rep. 6473 =32 17 | | | |
| | ♀ 26 | 8 28 36 | 8 29 21 | Lunæ limb. remot. à Regulo | 42 19 05 | 1013 69 | 42 19 50 |
| | | 30 22 | 31 07 | —————— rep. | 42 18 15 | 1013 36 | 42 18 00 |
| | | 36 00 | 36 45 | Lunæ limb. prox. à Manu Castoris, θ —— | 18 03 25 | 432 57 | 18 03 34 |
| ☽ in ♋ 13°½ Lat. Aust. 5¼. | | 38 41 | 39 26 | —————— rep. | 18 04 05 | 432 80 | 18 04 09 |
| | | 40 34 | 41 19 | Manus Castoris θ, à poplite Gemin. inferioris λ —— | 18 19 40 | 438 97 | 18 19 36 |
| | | 43 58 | 44 23 | Lunæ limbus remot. à Regulo | 42 12 35 | 1011 08 | 42 13 12 |
| | | 44 53 | 45 38 | —————— rep. | 42 12 00 | 1010 83 | 42 12 40 |
| | | 46 20 | 47 05 | Regulus à poplite Pollucis λ | 41 27 10 | 992 91 | 41 27 46 |
| | | 48 48 | 49 33 | Regulus à Manu Castoris – θ | 49 31 50 | 1186 24 | 49 32 15 |
| | | | | | Part. per Micr. | ′ ″ | |
| | | 58 08 | 58 53 | Lunæ Cuspis bor. à λ Gem. | 4077 | = 20 20 | Tub. Long. |
| | | 9 03 18 | 9 04 03 | —————— rep. | 3580 | = 17 52 | |
| Vide Fig. 125. | | 09 18 | 10 03 | —————— | 3047 | = 15 12 | |
| | | 18 10 | 18 55 | Lunæ Diameter —— | 6399 | = 31 55 | |
| | | 22 16 | 23 01 | —————— rep. | 6366 | = 31 45 | |
| | | 33 24 | 34 09 | Lunæ Cuspis borea à Stella | 795 | = 3 58 | |
| | | 36 04 | 36 49 | —————— | 519 | = 2 35 | |
| | | 41 48 | 42 33 | Stella in recta per Cusp. *Fabro* | | | |
| | | 41 54 | 42 39 | in recta, mihi. | | | |
| | | 43 20 | 44 05 | Stella à limbo lucido —— | 60 | = 0 18 | |
| | | 49 02 | 49 47 | —————— rep. | 647 | = 3 14 | |
| | | 51 30 | 52 15 | Lunæ Diameter —— | 6382 | = 31 50 | |
| | | 10 01 48 | 10 02 33 | —— rep. —— accur. —— | 6369 | = 31 46 | |
| | | 05 06 | 05 51 | Stella à limbo —— | 2195 | = 10::56 | |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ | | | | |
| ♀ Mar. 26 | 10 14 38 | | 44 01 00 | | | | |
| | 17 04 | Arcturi— | 43 41 20 | | | | |
| | 19 36 | | 43 20 30 | | | | |
| ♄ 27 | 8 50 31 | 8 51 35 | Lunæ limb. remot. à Regulo | 28 53 55 | 692 00 | 28 54 22 | |
| | 54 54 | 55 58 | ——rep. | 28 52 20 | 691 35 | 28 52 45 | |
| | 9 02 04 | 9 03 08 | Lunæ limb. prox. à Castore— | 19 17 40 | 462 14 | 19 17 40 | |
| | 05 05 | 06 09 | ——rep. | 19 18 25 | 462 50 | 19 18 34 | |
| | 08 46 | 09 50 | Lunæ limb. prox. à Regulo – | 28 46 30 | 689 03 | 28 46 57 | |
| | 12 15 | 13 19 | ——rep. | 28 45 15 | 688 48 | 28 45 34 | ☽ in ♋ 27°½ Lat. Aust. 5½ |
| ☉ 28 | | | *α, Sexta Cancri* Tychoni *in brachio Austrino Emerserat à Lunâ de Die, cujus paulò post Solis occasum observatæ Distantiæ,* | | | | |
| | | | | Part. per Mic. | ′ ″ | | |
| | 6 44 20 | 6 45 45 | —— à limbo lucido—— | 2527 | = 12 36 | | |
| | 50 10 | 51 35 | ——rep. | 2971 | = 14 50 | | |
| | 56 17 | 57 42 | ——iter. | 3420 | = 17 04 | | |
| | 7 01 48 | 7 03 13 | Stella transit per punctum Indicis. | | | | Vide Fig. 126. |
| | 03 18 | 04 43 | Lunæ limbus lucidus transit. | | | | |
| | 04 35 | 05 57 | Transit lucida pars supra Lacum Nigrum Majorem. | | | | |
| | | | Differentia declinationum limbi Lunæ borei & dictæ partis erat—— | 985 | = 4 55 | | |
| | 24 22 | 25 47 | Lunæ Diameter—— | 6245 | = 31 09 | | |
| | | | ——rep. per D. *Halleium*— | 6248 | = 31 10 | | |
| | 53 04 | 54 29 | Lunæ limb. hor. minorem habuit declinationem Diametro circitèr Lacus Nigri Majoris. | | | | |
| | | | | ° ′ ″ | Revol. Cent. | | |
| | 8 19 50 | 8 21 15 | Lunæ limb. remot. à Regulo | 16 22 00 | 392 08 | 16 22 08 | |
| | 22 35 | 24 00 | ——rep. | 16 21 00 | 391 71 | 16 21 12 | |
| | 27 09 | 28 34 | Lunæ limb. prox. ab Asello Boreo —— | 10 45 50 | 257 68 | 10 45 45 | |
| | 29 04 | 30 29 | ——rep. | 10 46 35 | 259 97 | 10 46 28 | |
| | 31 48 | 33 13 | Asellus Boreus ab α Cancri— | 10 16 40 | 246 09 | 10 16 45 | ☽ in ♌ 10° Lat. Aust. 5. |
| | 36 23 | 36 48 | Lunæ limb. remot. à Regulo | 16 16 00 | 389 73 | 16 16 15 | |
| | 37 17 | 38 42 | ——in *Nonagesimo* rep. | 16 15 40 | 389 55 | 16 15 48 | |
| | 38 28 | 39 53 | ——iter. | 16 15 10 | 389 38 | 16 15 22 | |
| | 41 10 | 42 35 | Regulus ab α Cancri—— | 17 07 20 | 410 25 | 17 07 37 | |
| | 43 44 | 44 59 | ——rep. | 17 07 20 | 410 24 | 17 07 36 | |
| | 49 50 | 51 15 | Lunæ limb. prox. à λ Gemin. | 25 45 50 | 617 47 | 25 47 33 | |
| | 9 01 38 | 9 03 01 | Calx Castoris μ, & sequens in austrino brachio Cancri. κ —— | 41 04 55 | 983 99 | 41 05 24 | |
| | | | | Part. per Micr. | ′ ″ | | |
| | 11 09 04 | 11 10 42 | κ Cancri à Cuspide austrina – | 3185 | = 15 53 | | |
| | 18 30 | 19 58 | ——rep. | 2451 | = 12 14 | | |
| | 28 40 | 30 08 | ——iter. | 1685 | = 8 24 | | |
| | 31 54 | 33 22 | —— | 1536 | = 7 40 | | |
| | 35 10 | 36 38 | —— | 1413 | = 7 03 | | |
| | 38 02 | 39 30 | —— | 1343 | = 6 42 | | |

| | Anno Christi 1680. *Styl. Vet.* | *Tempora per Horologium Oscillatorium* h. ′ ″ | *Tempora ex Altitud. Correcta.* h. ′ ″ | *LUNÆ* DISTANTIÆ à FIXIS. | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| *Vide Fig.* 127. | ☉ Mar. 28 | 11 40 00 | 11 41 28 | Stella ϰ Cancri in recta per cuspides obtusas, quantum conjectura assequi potuit D. *Halleius*. | | | |
| | | | | | *Part. per Mic.* | ′ ″ | |
| | | 41 10 | 42 38 | Stella à limbo lucido —— | 1275 | = 06 22 | |
| | | 44 10 | 45 38 | ———— rep. | 1265 | = 06 19 | |
| | | 46 40 | 48 08 | ———— iter. | 1275 | = 06 22 | |
| | | 49 10 | 50 38 | ———— rep. | 1299 | = 06 29 | |
| | | 57 10 | 58 38 | ———— iter. | 1387 | = 07 55 | |
| | | 12 11 00 | 12 12 28 | ———— denuò. | 1936 | = 09 40 | |
| | | | | *Dist. à Vert.* ° ′ ″ · *Hor. supp.* h. ′ ″ · *Err. Horol.* ′ ″ | | | |
| | | 20 33 36 | | 60 54 40 · 20 35 12 · + 1 36 | | | |
| | | 35 58 | Limbi Solis inferioris | 60 35 00 · 37 35 · + 1 37 | | | |
| | | 38 10 | | 60 17 00 · 39 46 · + 1 36 | | | |
| | | 39 46 | | 60 04 00 · 41 22 · + 1 36 | | | |
| | | 42 35 | | 59 41 10 · 44 10 · + 1 35 | | | |
| | ☽ 29 | 9 42 52 | 9 44 40 | Lunæ limb. rem. à Vindemiat. | 46 32 45 | 1114 80 | 46 33 12 |
| | | 44 50 | 46 38 | ———— rep. | 46 32 15 | 1114 61 | 46 32 44 |
| ☽ in ♌ 23⅔° Lat. Aust. 4½ | | 49 03 | 50 51 | Lunæ limbus proximus à Leonis ε | 15 41 30 | 376 02 | 15 41 55 |
| | | 51 03 | 52 51 | (*Luna in Nonagesi.*) — rep. | 15 41 55 | 376 18 | 15 42 19 |
| | | 54 15 | 56 03 | Lunæ lim. rem. à Vindemiat. | 46 29 15 | 1113 44 | 46 29 48 |
| | | 56 21 | 58 09 | ———— rep. | 46 28 30 | 1113 12 | 46 28 59 |
| | | 59 05 | 10 00 53 | ———— iter. | 46 27 25 | 1112 68 | 46 27 52 |
| | | 10 03 13 | 05 01 | Vindemiatrix à Leonis ε —— | 48 19 20 | 1157 36 | 48 19 52 |
| | | | | ———— rep. accuratè | 48 19 15 | 1157 36 | 48 19 52 |
| | ♂ 30 | 8 40 09 | 8 42 17 | Lunæ limb. rem. à Vindemiatrice —— | 35 42 25 | 855 10 | 35 42 40 |
| | | 43 41 | 45 49 | ———— rep. | 35 41 40 | 854 68 | 35 41 37 |
| ☽ in ♍ 5°½ Lat. Aust. 35′ | | 47 37 | 49 44 | Lunæ limb. prox. à Juba Leonis γ —— | 16 01 50 | 383 98 | 16 01 51 |
| | | 50 17 | 52 25 | ———— rep. | 16 02 25 | 384 22 | 16 02 27 |
| | | 55 15 | 57 22 | Lunæ limb. rem. à Vindemiatrice —— | 35 37 35 | 853 16 | 35 37 50 |
| | | 57 13 | 59 20 | ———— rep. | 35 37 15 | 852 94 | 35 37 16 |
| | | 9 00 12 | 9 02 17 | Juba Leonis à Vindemiatrice | 40 02 05 | 958 70 | 40 02 00 |
| | | 48 50 | 50 57 | ☽'s Diam. *Part. per Mic.* 6065 = 30 15 ′ ″ | | | |
| | | 56 54 | 59 00 | —— rep. 6068 = 30 16 | | | |
| | ♀ Apr. 2 | 9 15 10 | 9 18 20 | Lunæ limb. prox. à Corde Hydræ —— | 52 43 15 | 1262 63 | 52 43 37 |
| | | 18 22 | 21 32 | ———— rep. | 52 44 10 | 1263 01 | 52 44 35 |
| ☽ in ♎ 12°½ Lat. Aust. 0. | | 26 34 | 29 44 | Lunæ limb. prox. à δ Virginis | 10 14 40 | 245 22 | 10 14 35 |
| | | 30 34 | 33 44 | ———— rep. | 10 15 35 | 245 63 | 10 15 36 |
| | | 35 19 | 38 29 | Lunæ limb. prox. à Corde Hydræ —— | 52 49 50 | 1265 28 | 52 50 15 |
| | | 37 29 | 40 39 | ———— rep. | 52 50 25 | 1265 52 | 52 50 51 |
| | | 43 54 | 47 04 | Cor Hydræ à δ in Cingulo Virginis —— | 53 16 30 | 1275 81 | 53 16 36 |
| | | | | ———— rep. | 53 16 30 | 1275 84 | 53 16 40 |
| | | 10 04 04 | 10 07 14 | ☽'s Diam. *Part. per Mic.* 5952 = 29 41 ′ ″ | | | |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | | | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ' " | Hor. supp. h ' " | Err. Horol. ' " | | | | |
| ☉ Apr. 11 vel ☽ 12 mane | 20 16 00 | | 58 38 20 | 20 22 42 | + 6 42 | | | | |
| | 18 45 | Limbi Solis inferioris | 58 14 10 | 25 29 | + 6 44 | | | | |
| | 22 24 | | 57 42 40 | 29 06 | + 6 42 | | | | |
| | 25 23 | | 57 17 10 | 32 06 | + 6 43 | | | | |
| | 29 53 | | 56 38 30 | 36 36 | + 6 43 | | | | |
| ♀ 16 vel ♄ 17 mane | 20 49 51 | Limbi Solis inferioris | 52 19 50 | 20 58 01 | + 8 10 | | | | |
| | 53 45 | | 51 47 30 | 21 01 59 | + 8 14 | | | | |
| | 56 14 | | 51 27 50 | 04 25 | + 8 11 | | | | |
| ☿ 21 | 8 47 31 | 8 56 53 | Lunæ limb. rem. à λ Geminorum | | | 19 42 40 | 472 33 | 19 43 16 | |
| | 49 58 | 59 20 | rep. | | | 19 40 55 | 471 59 | 19 41 25 | |
| | 55 49 | 9 05 11 | Lunæ limb. prox. à Capella | | | 29 16 25 | 700 81 | 29 16 27 | ☽ in ♊ 25° Lat. Aust. 5 |
| | 9 02 21 | 11 43 | Lunæ limb. rem. à λ Geminorum | | | 19 33 00 | 468 38 | 19 33 21 | |
| | | | *Ægrotabat adjutor* Faber, *nec diutiùs aerem ferre potuit; quamobrem distantias nòn repetitas, incertas puto, & parum accuratas.* | | | | | | |
| vel | | | Dist. à Vert. ° ' " | Hor. supput. h ' " | Err. Horol. ' " | | | | |
| ♃ 22 mane | 19 29 27 | | 62 43 40 | 19 38 59 | + 9 32 | | | | |
| | 32 54 | Limbi Solis inferioris | 62 11 50 | 42 24 | + 9 30 | | | | |
| | 37 09 | | 61 33 00 | 46 38 | + 9 29 | | | | |
| | 40 28 | | 61 02 30 | 49 58 | + 9 30 | | | | |
| | 43 40 | | 60 33 20 | 53 09 | + 9 29 | | | | |
| ♃ 22 | 8 28 55 | 8 38 30 | Lunæ limb. rem. à Geminorum λ | | | 05 33 45 | 133 23 | 05 34 05 | |
| | 33 53 | 43 28 | rep. | | | 05 31 40 | 132 37 | 05 31 54 | |
| | 41 48 | 51 23 | Lunæ limb. prox. à seq. humero Aurigæ | | | 30 13 30 | 723 65 | 30 13 40 | ☽ in ♋ 9° Lat. Aust. 5¼ |
| | 44 02 | 53 37 | rep. | | | 30 13 50 | 723 82 | 30 14 07 | |
| | 51 42 | 9 01 17 | Lunæ limb. rem. à Geminorum λ | | | 05 21 10 | 128 19 | 05 21 25 | |
| | 55 50 | 05 25 | rep. | | | 05 19 05 | 127 22 | 05 19 00 | |
| vel | | | Dist. à Vert. ° ' " | Hor. supput. h ' " | Err. Horol. ' " | | | | |
| ♀ 23 mane | 19 37 48 | | 61 11 00 | 19 47 36 | + 9 48 | | | | |
| | 40 15 | Limbi Solis inferioris | 61 48 40 | 50 02 | + 9 47 | | | | |
| | 42 59 | | 60 23 30 | 52 48 | + 9 49 | | | | |
| | 46 03 | | 59 55 40 | 55 50 | + 9 47 | | | | |
| | 48 33 | | 59 33 00 | 58 20 | + 9 47 | | | | |
| | | | *Post Meridiem.* | | | | | | |
| ♀ 23 | 3 53 06 | | 59 39 30 | 4 03 00 | + 9 54 | | | | |
| | 55 29 | Limbi Solis inferioris | 60 01 00 | 05 20 | + 9 51 | | | | |
| | 57 51 | | 60 22 10 | 07 39 | + 9 48 | | | | |
| | 4 00 56 | | 60 50 50 | 10 47 | + 9 51 | | | | |
| | 03 07 | | 61 10 20 | 12 55 | + 9 48 | | | | |

| | Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ☉ Apr. 25 | 9 19 20 | 9 29 28 | Castor & Leonis ——— ☉ | 36 35 25 | 876 39 | 36 35 55 |
| | | 21 20 | 31 28 | Lunæ limb. prox. à Castore – | 36 51 55 | 882 57 | 36 51 24 |
| | | 23 17 | 33 25 | ——— rep. | 36 51 35 | 882 86 | 36 52 07 |
| ☽ in ♌ 20° Lat. Aust. 5½ | | 29 32 | 39 40 | Lunæ limb. remot. a Juba Leonis γ ——— | 14 37 40 | 350 69 | 14 38 31 |
| | | 32 22 | 42 30 | ——— rep. | 14 37 10 | 350 50 | 14 38 03 |
| | | 35 12 | 45 20 | Juba Leonis γ & ejusdem ☉ | 13 38 05 | 326 93 | 13 39 05 |
| | | 38 44 | 48 52 | Lunæ limb. prox. à Castore – | 36 58 15 | 885 48 | 36 58 40 |
| | | 40 26 | 50 34 | ——— rep. | 36 58 55 | 885 73 | 36 59 18 |
| | | 45 31 | 55 39 | Lunæ limb. rem. à Spica Virginis ——— | 59 25 25 | 1423 34 | 59 25 22 |
| | | 48 12 | 58 20 | ——— rep. | 59 24 00 | 1422 82 | 59 24 05 |
| | | 50 06 | 10 00 14 | Spica Virginis à Leonis —— ☉ | 59 31 40 | 1425 85 | 59 31 39 |
| | | 10 16 20 | 26 30 | Part. per Mic. ′ ″ ☽ᵉ Diam. \| 6199 \| = 30 55 ; —— rep. \| 6207 \| = 30 58 | | | |
| | ☽ 26 | 9 08 52 | 9 19 12 | Lunæ limb. rem. à Vindemiatrice ——— | 38 27 05 | 921 00 | 38 27 30 |
| | | 11 10 | 21 30 | ——— rep. | 38 26 20 | 920 69 | 38 26 44 |
| ☽ in ♍ 2°½ Lat. Aust. 3¾ | | 18 25 | 28 45 | Lunæ limb. prox. à Leonis ε | 20 57 00 | 501 65 | 20 57 06 |
| | | 21 45 | 32 05 | ——— rep. | 20 58 05 | 502 12 | 20 58 16 |
| | | 26 30 | 36 50 | Lunæ limb. rem. à Vindemiatrice ——— | 38 21 05 | 918 60 | 38 21 30 |
| | | 29 10 | 39 30 | ——— rep. | 38 20 00 | 918 18 | 38 20 27 |
| | | 35 22 | 45 42 | Vindemiatrix ab ε Leonis — | 48 19 15 | 1157 38 | 48 19 55 |
| | | 41 26 | 51 46 | Lunæ limb. prox. à Leonis ε | 21 04 25 | 504 65 | 21 04 21 |
| | | 10 01 20 | 10 11 40 | Lucida in Collo Serpentis à Vindemiatrice ——— | 40 15 05 | 963 77 | 40 14 42 |
| | vel | | | Dist. à Vert. ° ′ ″ \| Hor. supp. h. ′ ″ \| Err. Horolog. ′ ″ | | | |
| | ♂ 27 mane | 19 44 56 | Limbi Solis inferioris | 59 07 10 \| 19 55 23 \| +10 27 | | | |
| | | 47 41 | | 58 42 20 \| 58 07 \| +10 26 | | | |
| | | 50 09 | | 58 19 50 \| 20 00 35 \| +10 26 | | | |
| | | 53 18 | | 57 51 20 \| 03 43 \| +10 25 | | | |
| | | 55 28 | | 57 31 50 \| 05 52 \| +10 24 | | | |
| | | | | *Post Meridiem iterùm.* | | | |
| | ♂ 27 | 4 01 20 | Limbi Solis inferioris | 60 08 20 \| 4 11 45 \| +10 25 | | | |
| | | 03 38 | | 60 29 40 \| 14 03 \| +10 25 | | | |
| | | 06 58 | | 61 00 10 \| 17 22 \| +10 24 | | | |
| | | 10 14 | | 61 30 40 \| 20 40 \| +10 26 | | | |
| | | 13 31 | | 62 00 40 \| 23 55 \| +10 24 | | | |
| | | 9 20 46 | 9 31 16 | Lunæ limb. prox. à θ Leonis | 13 39 00 | 326 93 | 13 39 05 |
| | | 25 00 | 35 30 | ——— rep. | 13 39 50 | 327 13 | 13 39 35 |
| ☽ in ♍ 14°½ Lat. Aust. 3½ | | 30 18 | 40 48 | Lunæ limb. prox. à Virginis γ | 21 36 40 | 517 49 | 21 36 47 |
| | | 32 40 | 43 10 | ——— rep. | 21 35 45 | 517 07 | 21 35 44 |
| | | 37 01 | 47 31 | Lunæ limb. prox. à θ Leonis | 13 42 00 | 328 01 | 13 41 48 |
| | | 40 10 | 50 40 | ——— rep. | 13 42 30 | 328 18 | 13 42 13 |
| | | 46 53 | 57 23 | Virginis γ à Leonis θ ——— | 27 27 30 | 657 36 | 27 27 37 |
| | ☿ 28 | 9 31 01 | 9 41 38 | Lunæ limb. rem. à Virginis ζ | 23 06 55 | 553 40 | 23 06 58 |
| | | 34 18 | 44 55 | ——— rep. | 23 06 50 | 553 05 | 23 06 06 |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oſcillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones, cum Circuli partibus Reſpondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ☿ Apr. 28 | 9 41 09 | 9 51 46 | Lunæ limb. prox. à Cauda Leonis | 17 03 55 | 408 70 | 17 03 45 | |
| | 43 25 | 54 02 | rep. | 17 04 35 | 408 97 | 17 04 25 | |
| | 48 45 | 59 22 | Lunæ limb. rem. à ζ Virginis | 23 01 05 | 551 17 | 23 01 24 | |
| | 52 24 | 10 03 01 | rep. | 23 00 05 | 550 73 | 23 00 16 | ☽ in ♍ 27° Lat. Auſt. 1 |
| | 57 48 | 08 25 | Cauda Leonis à ζ Virginis | 30 12 10 | 723 08 | 30 12 15 | |
| | 10 00 18 | 10 55 | rep. | 30 12 00 | 723 01 | 30 12 05 | |
| ♃ 29 | 9 50 54 | 10 01 39 | Lunæ limb. prox. à prima Alæ Virginis | 16 35 40 | 397 44 | 16 35 33 | |
| | 54 18 | 05 03 | rep. | 16 36 40 | 397 87 | 16 36 37 | |
| | 58 53 | 09 38 | Lunæ limb. rem. à Spica Virginis | 10 15 40 | 245 73 | 10 15 51 | |
| *vel* | | | Diſt. à Vert. ° ′ ″ — Hor. ſupp. h ′ ″ — Err. Horol. ′ ″ | | | | |
| ♀ 30 | 19 28 10 | Sol. limbi inferioris | 61 01 10 — 19 39 01 — + 10 51 | | | | |
| | 31 23 | | 60 31 30 | | | | |
| *mane.* | 34 41 | | 60 01 00 — 19 45 31 — + 10 50 | | | | |
| | 37 52 | | 59 31 30 | | | | |
| | 41 13 | | 59 01 10 — 19 52 02 — + 10 49 | | | | |
| ♄ Maij 1 | 8 49 20 | 9 00 20 | Lunæ limb. prox. à Spica Virginis | 13 37 35 | 326 29 | 13 37 28 | |
| | 52 04 | 03 04 | rep. | 13 38 20 | 326 77 | 13 38 40 | |
| | 9 01 02 | 12 36 | Lunæ limb. prox. ab Arcturo | 31 32 35 | 755 11 | 31 32 36 | ☽ in ♏ 2° Lat. Bor. 1½. |
| | 03 03 | 14 03 | rep. | 31 33 10 | 755 34 | 31 33 10 | |
| | 08 36 | 19 36 | Lunæ limb. prox. à Spica Virginis | 13 45 00 | 329 16 | 13 44 40 | |
| | 10 50 | 21 51 | rep. | 13 45 20 | 329 36 | 13 45 10 | |
| | | | Diſt. à Vert. ° ′ ″ — Hor. ſupputat. h ′ ″ — Err. Horol. ′ ″ | | | | |
| ☉ 9 | 19 51 24 | Limbi Solis inferioris | 55 30 00 — 20 03 32 — + 12 08 | | | | |
| *vel* | 54 30 | | 55 01 30 — 06 38 — + 12 08 | | | | |
| ☽ 10 | 57 54 | | 54 30 40 — 10 01 — + 12 07 | | | | |
| *mane.* | 20 01 05 | | 54 01 30 — 13 13 — + 12 08 | | | | |
| | 04 30 | | 53 30 40 — 16 37 — + 12 07 | | | | |
| | 07 48 | | 53 01 10 — 19 54 — + 12 06 | | | | |
| ♂ Junij 1 | 9 12 00 | 9 25 00 | Lunæ limb. prox. à Spica Virginis | 58 11 25 | 1393 81 | 58 11 33 | |
| *vel* | | | Diſt. à Vert. ° ′ ″ — Hor. ſupput. h ′ ″ — Err. Horol. ′ ″ | | | | |
| ☿ 2 | 21 58 42 | Limbi Solis inferioris | 35 23 00 — 22 11 42 — + 13 00 | | | | |
| | 22 00 52 | | 35 08 30 — 13 51 — + 12 59 | | | | |
| *mane* | 03 20 | | 34 52 30 — 16 15 — + 12 55 | | | | |
| | 05 50 | | 34 36 10 — 18 45 — + 12 55 | | | | |
| ♂ 8 *vel* | 13 59 20 | 14 11 50 | Lunæ limb. prox. à lucida Arietis | 43 48 45 | 1049 11 | 43 48 35 | |
| ☿ 9 | 14 02 34 | 15 04 | rep. | 43 47 45 | 1048 68 | 43 47 30 | |
| *mane* | 07 02 | 19 32 | Lunæ limb. rem. à Collo Pegaſi ζ | 19 17 55 | 462 28 | 19 18 02 | ☽ in ♓ 20° Lat. Bor. |
| | 10 34 | 23 04 | rep. | 19 18 20 | 462 44 | 19 18 25 | |
| | 15 05 | 27 35 | Lunæ lim. prox. à lucd. Arietis | 43 41 25 | 1046 20 | 43 41 16 | |
| | 18 46 | 31 16 | rep. | 43 40 15 | 1045 80 | 43 40 16 | |

| | Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. / Dist. à Vert. ° ′ ″ | Hor. supput. h. ′ ″ | Err. Horol. ′ ″ | Distantia per lineam diagonalem. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|
| | ♂ Junii 8 vel ☿ 9 mane. | 20 10 51 | Limbi Solis inferioris | 50 00 10 | 20 23 19 | +12 28 | | | |
| | | 12 55 | | 49 41 20 | 25 24 | +12 29 | | | |
| | | 15 21 | | 49 19 10 | 27 50 | +12 29 | | | |
| | | 17 17 | | 49 02 00 | 29 43 | +12 26 | | | |
| | | 19 40 | | 48 40 30 | 32 06 | +12 26 | | | |
| | ♀ 18 vel ♄ 19 mane. | 19 59 05 | Limbi Solis inferioris | 51 59 50 | 20 11 24 | +12 19 | | | |
| | | 20 02 11 | | 51 31 30 | 14 29 | +12 18 | | | |
| | | 05 32 | | 51 01 10 | 17 48 | +12 16 | | | |
| | | 09 33 | | 50 24 00 | 21 52 | +12 19 | | | |
| | | 12 04 | | 50 02 00 | 24 17 | +12 13 | | | |
| | ☿ 23 | 10 15 02 | 10 27 08 | Lunæ limb. prox. à Scorpii β | | | 44 37 45 | 1069 00 | 44 38 21 |
| | | 17 30 | 29 36 | rep. | | | 44 36 25 | 1068 50 | 44 37 06 |
| ☽ in ♎ 26° ½ Lat. Bor. 1 | ♃ 24 | 9 56 21 | 10 08 22 | Lunæ limb. rem. à suprema in Fronte Scorpii β | | | 32 50 00 | 786 03 | 32 49 57 |
| | | 10 01 54 | 10 13 55 | rep. | | | 32 48 05 | 785 28 | 32 48 05 |
| | | 10 40 | 22 41 | Lunæ limb. prox. à clara in Cingulo Bootis | | | 39 22 10 | 943 00 | 39 22 21 |
| | | 13 28 | 25 29 | rep. | | | 39 22 05 | 943 00 | 39 22 21 |
| | | 19 06 | 31 07 | Lunæ limbus rem. à Scorpii β | | | 32 41 00 | 782 52 | 32 41 16 |
| | | 21 30 | 33 31 | rep. | | | 32 39 50 | 782 20 | 32 40 21 |
| | | 27 18 | 39 19 | Suprema in Fronte Scorpii β, à clara in Cingulo Bootis | | | 50 44 20 | 1214 97 | 50 44 12 |
| | ☿ 25 | 10 28 12 | 10 40 10 | Lunæ limb. rem. à Scorpii β | | | 20 46 40 | 497 78 | 20 47 21 |
| | | 31 30 | 43 28 | rep. | | | 20 45 55 | 497 23 | 20 45 58 |
| | | 19 55 42 | Limbi Solis inferioris | 53 00 10 | 20 07 39 | +11 57 | | | |
| | | 57 46 | | 52 41 20 | 09 42 | +11 56 | | | |
| | | 59 54 | | 52 21 50 | 11 49 | +11 55 | | | |
| | | 20 02 10 | | 52 00 30 | 14 09 | +11 59 | | | |
| ☽ in ♏ 15° ½. Lat. Bor. 3 | ♄ 26 | 9 40 13 | 9 52 08 | Lunæ limb. rem. à Scorpii β | | | 09 21 50 | 224 09 | 09 21 42 |
| | | 43 27 | 55 22 | rep. | | | 09 20 40 | 223 70 | 09 20 44 |
| | ♃ Julii 8 | 14 42 08 | 14 52 43 | Lunæ limb. prox. à lucida Plejadum | | | 27 12 05 | 651 46 | 27 12 51 |
| | | 45 18 | 55 53 | rep. | | | 27 10 30 | 650 66 | 27 10 51 |
| ☽ in ♈ 24° Lat. Aust. 2. | | 52 14 | 15 02 49 | Lunæ limb. rem. à Mirach Andromedæ | | | 29 24 00 | 703 90 | 29 24 10 |
| | | 53 54 | 04 29 | rep. | | | 29 24 00 | 703 92 | 29 24 13 |
| | ♀ 9 | 3 18 48 | Limbi Solis inferioris. | 51 02 40 | 3 29 20 | + 10 32 | | | |
| | | 22 06 | | 51 30 20 | 32 38 | + 10 32 | | | |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♂ Julii 27 | 9 05 24 | 9 14 14 | Lunæ limb. rem. ab Austr. & seq. contig. in Cornu Bor. Capricorni ——— | 25 40 35 | 614 81 | 25 40 52 | |
| | 08 10 | 17 00 | ——— rep. | 25 39 25 | 614 38 | 25 39 48 | |
| | 13 16 | 22 06 | Lunæ limb. prox. à lucida superiore in sequente humero Ophiuchi ——— | 26 32 10 | 635 22 | 26 32 05 | |
| | 15 16 | 24 06 | ——— rep. | 26 32 15 | 635 36 | 26 32 25 | ☽ in ♑ 4° Lat. Bor. 4½. |
| | 20 38 | 29 28 | Lunæ limb. remot. à dicta Capricorni ——— | 25 35 00 | 612 59 | 25 35 18 | |
| | 22 38 | 31 28 | ——— rep. | 25 34 25 | 612 39 | 25 34 48 | |
| | 26 50 | 35 40 | Austral. contig. in Corn. Capricorni à superiore in humero sequente Ophiuchi | 42 01 20 | 1005 86 | 42 00 15 | |
| ♃ 29 | 8 43 07 | 8 51 32 | Lunæ lim. prox. à π Sagittarii | 17 35 45 | 421 55 | 17 35 55 | |
| | 48 14 | 56 39 | ——— rep. | 17 37 50 | 422 35 | 17 37 55 | ☽ in ♑ 29°½ Lat. Bor. 4. |
| | 54 04 | 9 02 29 | Lunæ limb. prox. ab Aquila | 25 29 10 | 610 20 | 25 29 18 | |
| | 56 25 | 04 50 | ——— rep. | 25 29 20 | 610 25 | 25 29 25 | |
| | 9 00 28 | 08 53 | Lunæ lim. prox. à π Sagittarii | 17 42 40 | 424 30 | 17 42 50 | |
| | 02 33 | 10 38 | ——— rep. | 17 43 30 | 424 63 | 17 43 39 | |
| | 08 50 | 17 15 | Ultima in Capite Sagittarii π à lucida Aquilæ ——— | 31 28 00 | 753 56 | 31 28 44 | |
| | | | Dist. à Vert. ° ′ ″ ; Hor. Suppat. h. ′ ″ ; Err. Hor. ′ ″ | | | | |
| ♀ 30 | 20 30 44 | | 54 00 20 ; 20 38 53 ; +08 09 | | | | |
| | 34 06 | Limbi Solis inferioris | 53 32 00 ; 42 11 ; +08 05 | | | | |
| | 37 54 | | 53 00 50 ; 45 58 ; +08 04 | | | | |
| | 41 14 | | 52 31 30 ; 49 19 ; +08 05 | | | | |
| | 44 50 | | 52 01 10 ; 52 56 ; +08 06 | | | | |
| ♄ 31 | 9 06 20 | 9 14 20 | Lunæ limb. rem. ab ultima in Capite Sagittarii π — | 44 59 30 | 1077 60 | 44 59 54 | |
| | 09 41 | 17 41 | ——— rep. | 45 01 25 | 1078 21 | 45 01 25 | |
| ♂ Aug. 3 | 11 06 20 | 11 13 50 | Lunæ limb. prox. à lucida Arietis ——— | 26 03 10 | 623 90 | 26 03 39 | |
| | 08 50 | 16 20 | ——— rep. | 26 02 15 | 623 56 | 26 02 48 | |
| | 14 10 | 21 30 | Lunæ limb. rem. à Markab — | 29 23 30 | 703 69 | 29 23 39 | ☽ in ♈ 9°¼ Lat. Aust. 1½. |
| | 15 46 | 23 16 | ——— rep. | 29 24 00 | 703 88 | 29 24 07 | |
| | 19 30 | 27 00 | Lunæ limb. prox. à lucida Arietis ——— | 25 57 00 | 621 48 | 25 57 36 | |
| | 21 46 | 29 16 | ——— rep. | 25 56 15 | 621 17 | 25 56 50 | |
| | | | Dist. à Vert. ° ′ ″ ; Hor. suppat. h. ′ ″ ; Err. Horol. ′ ″ | | | | |
| ♀ 13 | 21 11 00 | Limbi Solis inferioris | 52 31 10 ; 21 17 32 ; +06 32 | | | | |
| | 15 23 | | 52 00 50 ; 21 55 ; +06 32 | | | | |
| | 19 16 | | 51 32 00 ; 25 49 ; +06 33 | | | | |
| ☽ 16 | 20 36 09 | | 58 01 10 ; 20 42 48 ; +06 39 | | | | |
| | 38 46 | Limbi Solis inferioris | 57 39 30 ; 45 27 ; +06 41 | | | | |
| | 42::05 | | 57 10 10 | | | | |
| | 45 00 | | 56 48 50 ; 51 41 ; +06 41 | | | | |
| | 47 07 | | 56 31 00 ; 53 54 ; +06 47 | | | | |

| | Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ☿ Aug. 18 | 3 06 25 | 3 13 10 | Lunæ limb. prox. à Solis rem. | 51 05 10 | 1223 61 | 51 05 51 |
| | | 09 03 | 15 48 | ———— rep. | 51 06 15 | 1223 92 | 51 06 37 |
| | | 11 00 | 17 45 | Lunæ limb. prox. à Solis prox. | 50 35 00 | 1211 50 | 50 35 30 |
| ☽ in ♎ 2 ½ Lat. Bor. 2 | | 13 46 | 20 31 | ———— rep. | 50 35 50 | 1211 70 | 50 36 00 |
| | | 7 22 46 | 7 29 31 | Lunæ limb. remot. ab Antare | 37 20 05 | 893 94 | 37 19 50 |
| ☽ in ♏ 23° Lat. Bor. 4 | ♀ 20 | 8 27 20 | 8 34 05 | Lunæ limb. remot. à clara inferiore in Fronte Scorpii δ ———— | 06 29 40 | 155 38 | 06 29 35 |
| | | 30 30 | 37 15 | ———— rep. | 06 28 40 | 155 01 | 06 28 39 |
| | | | | *Part. per Mic.* ′ ″ | | | |
| | ♄ 21 | 8 19 42 | 8 26 30 | ☽ᵃ Diam. \| 5920 \| = 29 32 | | | |
| | | 22 32 | 29 20 | —— rep. \| 5905 \| = 29 27 | | | |
| | | 44 42 | 51 30 | Lunæ limb. rem. à σ Sagittarii | 34 02 50 | 815 19 | 34 02 52 |
| | | 47 42 | 54 30 | ———— rep. | 34 01 35 | 814 71 | 34 01 40 |
| ☽ in ♐ 5° Lat. Bor. 4. | | 55 28 | 9 02 16 | Lunæ limb. remot. à Capite Ophiuchi ———— | 34 18 25 | 821 74 | 34 19 15 |
| | | 57 27 | 04 15 | ———— rep. | 34 18 05 | 821 63 | 34 18 59 |
| | | 9 01 20 | 07 08 | Lunæ limb. remot. ab humero Sagittarii σ ———— | 33 56 15 | 812 55 | 33 56 15 |
| | | 04 21 | 10 09 | ———— rep. | 33 55 00 | 812 12 | 33 55 10 |
| | | | | *Dist. à vert.* ° ′ ″ \| *Hor. suppút.* h. ′ ″ \| *Err. Horol.* ′ ″ | | | |
| | ☉ 22 | 21 01 17 | | 56 29 30 \| 21 08 10 \| + 6 53 | | | |
| | | 04 45 | Limbi Solis inferioris | 56 03 20 \| 11 38 \| + 6 53 | | | |
| | | 07 52 | | 55 40 20 \| 14 43 \| + 6 51 | | | |
| | | 10 42 | | 55 19 10 \| 17 34 \| + 6 52 | | | |
| | | 13 21 | | 55 00 00 \| 20 12 \| + 6 51 | | | |
| | ♂ 24 | 8 32 13 | 8 39 13 | Lunæ limb. rem. ab Ore Pegasi | 48 12 00 | 1154 57 | 48 12 51 |
| | | | | *Part. per Mic.* ′ ″ | | | |
| | ♃ 26 | 9 03 37 | 9 10 54 | ☽ᵃ Diam. \| 6313 \| = 31 29 | | | |
| | | 08 03 | 15 20 | —— rep. \| 6248 \| = 31 10 | | | |
| | | 12 42 | 20 00 | — optime \| 6280 \| = 31 20 | | | |
| ☽ in ♒ 8° Lat. Bor. 3½ | | 10 44 47 | 52 04 | Lunæ limb. rem. à Markab. – | 43 13 45 | 1035 34 | 43 14 05 |
| | | 50 26 | 57 43 | ———— rep. | 43 11 25 | 1034 46 | 43 11 52 |
| | | 11 01 53 | 11 09 10 | Lunæ limb. prox. ab Aquila – | 27 42 42 | 663 51 | 27 43 03 |
| | | 05 25 | 12 42 | ———— rep. | 27 43 00 | 663 60 | 27 43 16 |
| | | 17 23 | 24 40 | Lunæ limb. rem. à Markab. – | 43 00 25 | 1030 23 | 43 01 16 |
| | ♀ 27 | 12 04 19 | 12 11 43 | Lunæ limb. rem. à Capite Andromedæ ———— | 51 41 00 | 1237 90 | 51 41 40 |
| | | 07 56 | 15 13 | ———— rep. | 51 39 40 | 1237 43 | 51 40 30 |
| | ☽ 30 | 8 52 02 | 8 59 49 | Lunæ limb. prox. à lucida Arietis ———— | 31 24 00 | 751 94 | 31 24 40 |
| ☽ in ♈ 3° Lat. Aust. 1. | | 55 23 | 9 03 10 | ———— rep. | 31 22 20 | 751 25 | 31 22 57 |
| | | 9 00 15 | 08 02 | Lunæ limb. rem. à Markab – | 25 15 30 | 604 81 | 25 15 47 |
| | | | | *Palilicii Occultatio.* | *Part. per Mic.* | ′ ″ | |
| | ♀ Sept. 3 | 14 41 32 | 14 49 52 | Lunæ Cuspis Austr. à Stella – | 5300 | = 26 26 | |
| | *vel* | 44 50 | 53 10 | Lunæ limb. prox. à Stella — | 1028 | = 05 08 | |
| | ♄ 4 | 14 48 34 | 56 54 | Lunæ Cuspis Austr. à Stella – | 4830 | = 24 06 | |
| | *mane* | 52 56 | 15 01 16 | Lunæ limb. prox. à Stella rep. | 4370 | = 21 48 | |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ♀ Sept. 3 vel ♄ 4 mane. | 14 57 22 | 15 05 42 | Immersio juxta Australissimam reverâ Macularum trium parvularum medio jacentium inter Mareotida & Climacem à Cuspide Austrina, | Part. per Mic. 4049 | ° ' " = 20 12 | Vel paulò minùs. | Vide Fig. 128. |
| | 15 03 00 | 15 11 20 | Lunæ Diameter ——— | 6595 | = 32 54 | | |
| | | | ——— rep. | 6588 | = 32 52 | | |
| | 16 05 25 | 16 13 45 | Fixa non emerserat ——— | | | | |
| | 05 42 | 14 02 | Emerserat ——— | | | | |
| | 06 52 | 15 12 | Stella à Cuspide Austrina — | 3411 | = 17 01 | | |
| | 10 32 | 18 52 | ——— rep. | 3725 | = 18 35 | | |
| | 13 40 | 22 00 | ——— iterùm | 3980 | = 19 51 | | |
| | 15 31 | 23 52 | ——— denuò | 4098 | = 20 26 | | |
| | 45 00 | 53 20 | Lunæ limb. prox. à Regel Orionis ——— | 26 12 25 | 627 47 | 26 12 38 | |
| | 48 00 | 56 20 | Regel à Palilicio ——— | 26 29 25 | 634 34 | 26 29 52 | |
| | 50 00 | 58 20 | Lunæ limb. prox. à Regel iterùm ——— | 26 12 00 | 627 31 | 26 12 13 | |
| | 55 42 | 17 04 02 | Lunæ limb. prox. à Polluce – | 44 09 10 | 1057 66 | 44 09 58 | |
| | 58 13 | 06 33 | ——— rep. | 44 08 15 | 1057 20 | 44 08 50 | |
| | 17 03 35 | 11 55 | Regel à Palilicio ——— rep. | 26 29 40 | 634 33 | 26 29 51 | |

| Tempora per Horologium h. ' " | | Dist. à vert. ° ' " | Hora supput. h. ' " | Err. Horol. ' " |
|---|---|---|---|---|
| 20 20 14 | Limbi Solis inferioris | 65 33 10 | 20 28 31 | + 8 17 |
| 24 10 | | 65 01 10 | 32 34 | + 8 24 |
| 28 07 | | 64 30 00 | 36 25 | + 8 18 |
| 36 04 | | 63 26 20 | 44 25 | + 8 21 |
| 39 18 | | 63 00 50 | 47 40 | + 8 22 |

| Anno Christi 1680. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ' " | Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ☉ 5 vel ☽ 6 mane | 15 08 12 | 15 16 54 | Lunæ limb. prox. à Castore – | 19 41 50 | 471 76 | 19 41 51 | |
| | 10 12 | 18 54 | ——— rep. | 19 41 00 | 471 45 | 19 41 05 | |
| | 12 14 | 20 56 | Lucid. pes Geminor. à Castore | 20 10 40 | 483 24 | 20 10 42 | |
| | 14 29 | 23 11 | Lunæ limb. prox. à Castore – | 19 39 40 | 470 97 | 19 39 52 | |
| | 20 15 | 28 57 | Lunæ limb. rem. à Cornu Tauri Boreo ——— | 19 32 55 | 468 22 | 19 32 57 | |
| | 23 16 | 31 58 | ——— rep. | 19 33 55 | 468 68 | 19 34 06 | ☽ in ♋ 3° Lat. Aust. 5° |
| | 25 03 | 33 45 | Lucidus Pes Gemin. à Cornu Tauri Boreo ——— | 20 28 30 | 490 42 | 20 28 48 | |
| | 30 00 | 38 42 | Lunæ limb. prox. à Castore – | 19 34 50 | 469 01 | 19 34 57 | |
| | 33 08 | 41 50 | ——— rep. | 19 33 55 | 468 62 | 19 33 57 | |
| | 36 49 | 45 31 | Castor à Cornu Tauri Boreo – | 27 48 20 | 665 78 | 27 48 44 | |
| | | | Erat Luna paululùm prætergressa Solis Quadraturam, juxta limitem Austrinum, unde maximam quàm proximè secundum Hypotheses obtineret Latitudinem; cujus investigandi causa has Observationes ad prævisam olim opportunitatem institui & feci. | | | | |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | *Dist. à Vert.* ° ′ ″ — *Hor. suppus.* h ′ ″ — *Err. Horol.* ′ ″ | | | |
| ☉ Sept. 5 | 20 06 23 | | 68 01 20 — 20 15 27 — + 8 54 | | | |
| *vel* | 10 [illegible]4 | Limbi Solis inferioris. | 67 31 00 — 19 05 — + 8 51 | | | |
| ☽ 6 | 13 51 | | 67 01 10 — 22 41 — + 8 50 | | | |
| *mane* | 17 24 | | 66 32 00 — 26 14 — + 8 50 | | | |
| | 21 05 | | 66 01 40 — 29 57 — + 8 52 | | | |
| | | | *Post Meridiem iterùm.* | | | |
| ☽ 6 | 3 20 52 | | 66 03 00 — 3 29 30 — + 8 38 | | | |
| | 24 21 | Limbi Solis inferioris | 66 32 00 — 33 04 — + 8 43 | | | |
| | 27 52 | | 67 01 10 — 36 36 — + 8 44 | | | |
| | 31 29 | | 67 30 50 — 40 12 — + 8 43 | | | |
| *vel* | 36 14 | | 68 09 10 | | | |
| | 16 26 36 | 16 35 26 | Lunæ limb. rem. à Geminor. λ | 04 09 50 | 099 79 | 04 10 10 |
| ♂ 7 | 28 33 | 37 23 | ——— rep. | 04 10 45 | 100 08 | 04 10 54 |
| *mane* | 33 12 | 42 02 | Lunæ limb. prox. à Polluce – | 11 59 10 | 287 23 | 11 59 54 |
| ☽ in ♋ 18° Lat. Aust. 5½. | 35 47 | 44 37 | ——— rep. | 11 59 00 | 287 18 | 11 59 36 |
| | 40 25 | 49 15 | Lunæ limb. rem. à λ Geminor. | 04 16 20 | 102 40 | 04 16 44 |
| | 41 54 | 50 44 | ——— rep. | 04 17 05 | 102 65 | 04 17 21 |
| | 47 | 56 | λ Geminor. à Polluce ——— | 13 07 10 | 314 28 | 13 07 25 |
| ♀ 17 | 3 08 05 | 3 18 30 | Lunæ limb. prox. à Solis prox. | 53 07 20 | 1272 13 | 53 07 24 |
| | 10 50 | 21 15 | ——— rep. | 53 08 25 | 1272 57 | 53 08 30 |
| | 12 17 | 22 42 | Lunæ limb. prox. à Solis rem. | 53 40 35 | 1285 48 | 53 40 46 |
| | 14 09 | 24 34 | ——— rep. | 53 41 25 | 1285 76 | 53 41 28 |
| | 20 15 | 30 40 | ——— iterùm. | 53 43 25 | 1286 52 | 53 43 22 |
| | | | *Dist. à Vert.* ° ′ ″ — *Hora suppus.* h. ′ ″ — *Err. Horol.* h. ′ ″ | | | |
| ☉ 19 | 20 21 13 | | 70 20 40 — 20 32 15 — +11 02 | | | |
| *vel* | 23 48 | Sol. limbi inferioris——— | 70 00 30 — 34 50 — +11 02 | | | |
| ☽ 20 | 26 27 | | 69 40 10 — 37 27 — +11 00 | | | |
| *mane* | 29 06 | | 69 19 30 — 40 08 — +11 02 | | | |
| | 31 39 | | 69 00 50 — 42 36 — +10 57 | | | |
| | | | *Post Meridiem iterùm.* | | | |
| ☽ 20 | 3 13 32 | | 70 01 10 — 3 24 31 — +10 59 | | | |
| | 16 02 | Sol. limbi inferioris— | 70 20 30 — 27 00 — +10 58 | | | |
| | 18 53 | | 70 40 40 — 29 36 — +11 03 | | | |
| | 21 12 | | 71 00 50 — 32 10 — +10 58 | | | |
| | 23 42 | | 71 20 50 — 34 42 — +11 00 | | | |
| | 6 49 49 | 7 00 54 | Lunæ limb. remot. ab inferiore in Cornu Capricorni, β ——— | 23 38 45 | 566 37 | 23 39 28 |
| | 51 26 | 02 31 | ——— rep. | 23 38 05 | 566 07 | 23 38 43 |
| | 56 32 | 07 37 | Lunæ limb. prox. à ζ Serpentis Ophiuchi ——— | 16 32 20 | 396 12 | 16 32 15 |
| ☽ in ♑ 6°⅔ Lat. Bor. 4½. | 7 01 51 | 12 56 | ——— rep. | 16 33 00 | 396 38 | 16 32 54 |
| | 06 02 | 17 03 | Lunæ limb. remot. à β Capricorni ——— iterùm | 23 32 50 | 563 94 | 23 33 22 |
| | 08 36 | 19 41 | ——— rep. | 23 31 45 | 563 51 | 23 32 18 |
| | 14 10 | 25 15 | Australis in Cornu Capricorni β, à Serpentis ζ ——— | 31 46 50 | 760 90 | 31 47 06 |
| | | | | *Part. per Mic.* | ′ ″ | |
| | 26 18 | 37 23 | Lunæ Diameter ——— | 6025 | = 30 03 | |
| | 28 54 | 39 59 | *T. Fabro* ——— rep. | 6013 | = 30 00 | |

| ANNO CHRISTI 1680. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| | | | Part. per Mic. ′ ″ | | | | |
| ☿ Sept. 22 | 7 19 15 | 7 30 40 | ☽ᵉ Diamet. 6199 = 30 55 | | | | |
| | 24 00 | 35 25 | ——— rep. 6200 = 30 56 | | | | |
| | 8 30 40 | 42 05 | Lunæ limbus proximus à sequente Manu Antinoi θ, ——— | 14 51 20 | 355 89 | 14 51 33 | |
| | 32 54 | 44 19 | ——— rep. | 14 51 10 | 355 85 | 14 51 27 | |
| | 38 11 | 49 36 | Lunæ limb. remot. à sequente in Cauda Capricorni — | 18 33 35 | 444 54 | 18 33 33 | |
| | 40 14 | 51 39 | ——— rep. | 18 32 55 | 444 22 | 18 32 45 | ☽ in ♒ 1°⅚ Lat. Bor. 3⅔ |
| | 44 49 | 56 14 | Lunæ limb. prox. ab Antinoi, θ ——— | 14 51 45 | 356 06 | 14 51 54 | |
| | 46 33 | 57 58 | ——— rep. | 14 51 40 | 356 00 | 14 51 50 | |
| | 52 14 | 9 03 39 | Manus Antinoi sequens, θ, à sequente in Cauda Capricorni, lucida ——— | 28 05 20 | 672 41 | 28 05 21 | |
| ♃ 23 | 7 37 09 | 7 48 46 | Lunæ limb. remot. à λ Aquarii ——— | 23 04 55 | 552 52 | 23 04 46 | |
| | 40 12 | 51 49 | ——— rep. | 23 03 20 | 551 99 | 23 03 27 | ☽ in ♒ 14° Lat. Bor. 3. |
| | 46 46 | 58 23 | Lunæ limb. prox. à γ Delphini ——— | 29 32 00 | 706 97 | 29 31 53 | |
| | 50 02 | 8 01 39 | ——— rep. | 29 32 05 | 707 02 | 29 32 00 | |
| | 55 50 | 07 27 | Lunæ limb. prox. ab Aquarii, λ ——— | 22 57 35 | 549 55 | 22 57 20 | |
| | 59 05 | 10 42 | ——— rep. | 22 56 15 | 549 01 | 22 55 58 | |
| | 8 04 10 | 15 47 | Delphini γ ab Aquarii, λ ——— | 39 09 15 | 937 66 | 39 09 13 | |
| | | | Dist. à Vert. ° ′ ″ — Hor. suppus. h ′ ″ — Err. Horol. ′ ″ | | | | |
| ♀ 24 | 20 39 04 | Limbi Solis inferioris. | 69 39 50 — 8 50 58 — +11 54 | | | | |
| | 44 19 | | 69 01 50 — 56 12 — +11 53 | | | | |
| | 49 01 | | 68 28 40 — 9 00 52 — +11 51 | | | | |
| ☉ 26 | 14 38 16 | 14 50 06 | Lunæ limb. prox. à Markab | 22 14 55 | 532 62 | 22 14 48 | |
| | 42 35 | 54 25 | ——— rep. | 22 16 00 | 533 03 | 22 15 50 | |
| | 48 30 | 15 00 20 | Lunæ limb. remot. à lucid. Arietis ——— | 35 05 10 | 840 41 | 35 05 55 | ☽ in ♓ 29⅚° Lat. Aust. 0½. |
| | 50 26 | 02 16 | ——— rep. | 35 04 20 | 840 07 | 35 05 05 | |
| | 54 48 | 06 38 | Lunæ limb. prox. à Markab | 22 19 05 | 534 39 | 22 19 13 | |
| | 58 16 | 10 06 | ——— rep. | 22 20 05 | 534 76 | 22 20 10 | |
| ♂ 28 | 8 44 49 | 8 56 39 | Lunæ limbus remot. à λ Aquarii ——— | 49 54 30 | 1195 23 | 49 54 44 | |
| | 47 40 | 59 30 | ——— rep. | 49 56 25 | 1195 87 | 49 56 20 | |
| | 52 54 | 9 04 44 | Lunæ limb. rem. à lucid. in Collo Andromedæ ——— | 29 17 30 | 701 26 | 29 17 35 | ☽ in ♈ 26⅓° Lat. Aust. 3½ |
| | 54 50 | 06 40 | ——— rep. | 29 17 45 | 701 36 | 29 17 50 | |
| | 59 18 | 11 08 | Lunæ limb. rem. ab Aquarii, λ ——— | 50 02 50 | 1198 43 | 50 02 45 | |
| | 02 06 | 13 56 | ——— rep. | 50 04 20 | 1199 18 | 50 04 37 | |
| | 07 42 | 19 32 | Aquarii λ à lucida in Collo Andromedæ, δ ——— | 46 09 00 | 1105 42 | 46 09 40 | |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ′ ″ | Hor. supput. h. ′ ″ | Err. Horol. ′ ″ | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|
| ☉ Oct. 3 *vel* ☽ 4 *mane.* | | | Occultatio Fixæ in Poplite Gemini inferioris, *Bayero* λ. | | | | Part. per Mic. | ′ ″ | |
| | 14 26 40 | 14 38 25 | Stella à limbo lucido —— | | | | 3210 | = 16 01 | |
| | 31 02 | 42 47 | —— rep. | | | | 2788 | = 13 55 | |
| *Vide Fig.* 129. | 34 04 | 45 49 | —— iter. | | | | 2490 | = 12 25 | |
| | 37 44 | 49 29 | Lunæ Diameter —— | | | | 6515 | = 32 30 | |
| | 43 42 | 55 27 | Stella à limbo lucido —— | | | | 1655 | = 08 15 | |
| | 15 01 12 | 15 12 57 | Nubibus dehiscentibus visa iterùm Fixa à limbo Lunæ vix Mareotidis latitudinem ad boreum ejus terminum distans. | | | | | | |
| | 03 56 | 15 41 | Iterùm per Hiatus nubium apparuit Luna sed non Fixa, quippe ipsam texerat. | | | | | | |
| | 20 47 05 | Limbi Solis inferioris | | 71 42 30 | 20 59 03 | +11 58 | *Errorem pono* 11′ 45″. | | |
| | 50 22 | | | 71 20 00 | 21 02 19 | +11 57 | | | |
| | 54 24 | | | 70 52 50 | 06 19 | +11 55 | | | |
| | 58 02 | | | 70 28 50 | 09 55 | +11 53 | | | |
| ♀ 6 *vel* ♃ 7 *mane* | 20 53 14 | Limbi Solis inferioris | | 72 01 00 | 21 05 00 | +11 46 | | | |
| | 56 12 | | | 71 41 40 | 07 54 | +11 42 | | | |
| | 59 21 | | | 71 21 10 | 11 01 | +11 40 | | | |
| ☽ *in* ♍ 11°. *Lat. Aust.* 2. ♃ 7 *vel* ♀ 8 *mane* | 23 59 25 | 0 10 50 | Lunæ limb. prox. à Solis proximo —— | | | | 44 26 30 | 1064 31 | 44 26 37 |
| | 0 03 29 | 14 54 | —— rep. | | | | 44 24 25 | 1063 65 | 44 24 58 |
| | 06 13 | 17 38 | Lunæ limb. prox. à Solis remoto —— | | | | 44 55 50 | 1076 07 | 44 56 03 |
| | 08 32 | 19 57 | —— rep. | | | | 44 54 10 | 1075 63 | 44 54 57 |
| | | | Ad Ultimam Observationem Vapores, qui reliquas turbaverant, paululùm fuere dissipati, hanc ergò iis certiorem mensuram æstimo. | | | | | | |
| ☿ 13 | 7 32 40 | Lucidæ Arietis | | 56 00 50 | 7 42 38 | + 9 58 | | | |
| | 35 50 | | | 55 31 40 | 45 47 | + 9 57 | | | |
| | 39 04 | | | 55 01 30 | 49 03 | + 9 59 | | | |
| | 42 22 | | | 54 31 30 | 52 17 | + 9 55 | | | |
| | 45 41 | | | 54 00 30 | 55 38 | + 9 57 | | | |
| ♄ 16 | 6 15 07 | 6 24 52 | Lunæ limb. rem. ab ult. Capitis Sagittarii π —— | | | | 22 04 05 | 528 47 | 22 04 21 |
| ☽ *in* ♐ 20°½. *Lat. Bor.* 4½. | 18 06 | 28 51 | —— rep. | | | | 22 03 05 | 528 07 | 22 03 21 |
| | 24 51 | 34 36 | Lunæ limb. prox. à Capite Herculis —— | | | | 33 36 20 | 804 47 | 33 36 03 |
| | 27 44 | 37 29 | —— rep. | | | | 33 36 35 | 804 46 | 33 36 01 |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♄ Oct. 16 | 6 32 13 | 6 41 58 | Lunæ limb. rem à Sagittarii π | 21 57 00 | 525 58 | 21 57 06 | ☽ in ♐ 20°½ Lat. Bor. 4½ |
| | 34 23 | 44 08 | ——— rep. | 21 56 10 | 525 32 | 21 56 27 | |
| | 40 42 | 50 27 | Caput Herculis ab ultima in Capite Sagittarii π — } *Dubia certè & erronea.* | 45 03 30 | 1079 02 | 45 03::27 | |
| | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h. ′ ″ \| *Err. Horol.* ′ ″ | | | | |
| ☉ 17 *vel* ☽ 18 *mane.* | 20 48 35 | Sol. limbi inferioris | 76 10 40 \| 20 58 15 \| + 9 40 | *Ergo in Meridie Horologii Error 9′ 32″* | | | |
| | 51 31 | | 75 51 30 \| 21 01 10 \| + 9 39 | | | | |
| | 54 35 | | 75 31 20 \| 04 16 \| + 9 41 | | | | |
| | 57 42 | | 75 11 00 \| 07 24 \| + 9 42 | | | | |
| | 21 01 02 | | 74 50 20 \| 10 38 \| + 9 36 *Post Meridiem.* | | | | |
| ☽ 18 | 2 39 15 | Sol. limbi inferioris | 74 50 40 \| 2 48 42 \| + 9 27 | | | | |
| | 42 35 | | 75 10 50 \| 51 52 \| + 9 17 | | | | |
| | 45 42 | | 75 31 30 \| 55 06 \| + 9 22 | | | | |
| | 48 48 | | 75 50 50 \| 58 03 \| + 9 21 | | | | |
| ♃ 21 | 7 04 12 | 7 12 27 | Lunæ limb. prox. ab humero præcedente Aquarii — } | 06 51 50 | 164 19 | 06 51 39 | |
| | 06 40 | 14 55 | ——— rep. | 06 52 05 | 164 32 | 06 51 58 | |
| | 11 16 | 19 31 | Lunæ limb. rem. ab Algenib Pegasi ——— } | 43 27 40 | 1040 96 | 43 28 09 | ☽ in ♒ 22°½ Lat. Bor. 0½. |
| | 14 01 | 22 16 | ——— rep. | 43 26 40 | 1040 51 | 43 27 02 | |
| | 18 23 | 26 38 | Lunæ limb. prox. ab hum. Aquarii præcedente —— } | 06 54 10 | 165 14 | 06 54 02 | |
| | 23 14 | 31 29 | Humerus Aquarii præcedens ab extrema Alæ Pegasi Algenib ——— } | 45 05 50 | 1080 28 | 45 06 36 | |
| | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h ′ ″ \| *Err. Horol.* ′ ″ | | | | |
| ♀ 22 *vel* ♄ 23 *mane.* | 21 05 38 | Limbi Solis inferioris | 76 00 50 \| 21 13 24 \| + 7 46 | *Ergo in Meridie Horologii Error 7′ 34″* | | | |
| | 09 02 | | 75 40 00 \| 16 48 \| + 7 46 | | | | |
| | 12 12 | | 75 21 00 \| 19 57 \| + 7 45 | | | | |
| | 15 24 | | 75 01 50 \| 23 10 \| + 7 46 | | | | |
| | 19 02 | | 74 41 00 \| 26 43 \| + 7 41 *Post Meridiem* | | | | |
| ♄ 23 | 2 25 07 | | 74 40 20 \| 2 32 31 \| + 7 24 | | | | |
| | 28 52 | Sol. limbi inferioris | 75 02 00 \| 36 13 \| + 7 21 | | | | |
| | 32 00 | | 75 21 00 \| 39 25 \| + 7 25 | | | | |
| | 35 26 | | 75 41 30 \| 42 50 \| + 7 24 | | | | |
| | 38 44 | | 76 01 30 \| 46 08 \| + 7 22 | | | | |
| | | | *Part. per Mic.* ′ ″ | | | | |
| | 5 23 34 | 5 41 04 | ☽ᵃ Diam. 6480 \| = 32 19 | | | | |
| | 28 12 | 35 42 | ——— rep. 6482 \| = 32 20 | | | | |
| | 6 19 44 | 6 27 14 | Lunæ limb. prox. ab humero Aquarii præcedente — } | 30 58 50 | 741 66 | 30 58 57 | |
| | 22 25 | 29 55 | ——— rep. | 31 00 15 | 742 24 | 31 00 25 | |
| | 28 00 | 35 30 | Lunæ limb. remot. à Scheat Pegasi ——— } | 31 47 25 | 761 12 | 31 47 39 | |
| | 31 53 | 39 23 | ——— rep. | 31 47 15 | 761 03 | 31 47 25 | ☽ in ♓ 19° Lat. Bor. 0½ |

| | Anno Christi 1680. Styl. Vet. | Tempora per Horolog. Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas Diagonales. ° ′ ″ | Distantia per Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ♄ Oct. 23 | 6 35 43 | 6 43 13 | Lunæ limb. prox. à dicta Aquarii | 31 06 10 | 744 55 | 31 06 12 |
| | | 37 40 | 45 10 | rep. | 31 06 50 | 744 89 | 31 07 03 |
| | | 43 20 | 50 50 | Scheat ab humero Aquarii præcedente | 40 18 35 | 965 52 | 40 19 06 |
| | ☽ 25 | 6 13 54 | 6 20 06 | ☽ᵉ Diam. (Part. per Mic.) 6642 = 33′ 08″ | | | |
| | | | | rep. 6645 = 33 09 | | | |
| | | 8 00 08 | 8 06 20 | Lunæ limb. prox. à lucida in Collo Andromedæ δ | 26 38 25 | 637 82 | 26 38 36 |
| | | 05 45 | 11 57 | rep. | 26 38 30 | 637 84 | 26 38 39 |
| | | 10 35 | 16 37 | Lunæ limb. prox. à sequente humero Aquarii | 51 24 00 | 1231 13 | 51 24 42 |
| ☽ in ♈ 19°½ Lat. Aust. 2½ | | 13 41 | 19 53 | rep. | 51 25 50 | 1231 76 | 51 26 16 |
| | | 15 21 | 21 33 | (*Luna in Nonagesimo*) iter. | 51 26 30 | 1232 04 | 51 26 58 |
| | | 19 24 | 25 36 | Lunæ limb. prox. ab Andromedæ δ | 26 38 45 | 638 01 | 26 39 05 |
| | | 23 00 | 29 12 | rep. | 26 38 55 | 638 03 | 26 39 08 |
| | | 29 05 | 35 16 | Humerus Aquarii sequens ab Andromedæ δ | 47 55 20 | 1147 85 | 47 56 00 |
| | | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h. ′ ″ \| *Err. Horol.* ′ ″ | | | |
| | ☿ 27 | 9 31 30 | Palilicii | 57 31 10 \| 9 36 37 \| + 5 07 | | | |
| | | 34 54 | | 57 00 50 \| 40 00 \| + 5 06 | | | |
| | | 38 07 | | 56 32 00 \| 43 14 \| + 5 07 | | | |
| | | 41 34 | | 56 01 25 \| 46 42 \| + 5 08 | | | |
| | | 44 58 | | 55 31 20 \| 50 05 \| + 5 07 | | | |
| | | 11 09 29 | 11 14 33 | Lunæ limb. prox. à Palilicio | 13 43 55 | 328 83 | 13 43 51 |
| ☽ in ♉ 21° Lat. Aust. 4½ | | 13 12 | 18 17 | rep. (*Luna in Nonagesimo*) | 13 42 12 | 328 15 | 13 42 09 |
| | | 19 48 | 24 52 | Lunæ limb. rem. à genu Persei ι | 27 22 20 | 655 35 | 27 22 36 |
| | | 25 43 | 30 47 | Lunæ limb. prox. ab Aldebar. | 13 36 05 | 325 74 | 13 36 06 |
| | | | | *Tunc nubes & pluvia.* | | | |
| | | | | *Palilicii Occultatio.* | Part. per Micr. | ′ ″ | |
| | ♃ 28 | 7 07 20 | 7 11 52 | Lunæ Diameter | 6745 | = 33 39 | |
| | | 11 54 | 16 26 | rep. | 6744 | = 33 39 | |
| | | 15 14 | 19 46 | Stella à limb. prox. | 5895 | = 29 24 | |
| | | 21 12 | 24 44 | rep. | 5095 | = 25 25 | |
| | | 25 50 | 30 22 | iter. | 4490 | = 22 24 | |
| | | 32 42 | 37 14 | iter. | 3595 | = 17 56 | |
| vide Fig. 130. | | 35 44 | 40 16 | iter. | 3203 | = 15 59 | |
| | | 41 08 | 45 40 | iter. | 2514 | = 12 32 | |
| | | 46 50 | 51 22 | iter. | 1817 | = 09 04 | |
| | | 50 50 | 55 22 | iter. | 1318 | = 06 34 | |
| | | 55 02 | 59 34 | iter. | 810 | = 04 02 | |
| | | 57 37 | 8 02 09 | denuò | 490 | = 02 26 | |

| Anno Christi 1680. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitud. Correcta h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ☿ Oct. 28 | 8 01 54 | 8 06 26 | Adhærebat Limbo —— | | | | |
| | 01 58 | 06 30 | Evanuit longitudinem Paludis Miris ab ejus termino Boreo. Boreus limbus Mæotidis, idem Ætnæ eandem habuere declinationem cum loco subingressus. | | | | |
| | | | Differentia declinationum loci subingressus & limbi Lunæ Borei —— | Part. per Mic. 2770 | ' " = 13 49 | | |
| | 58 28 | 9 02 58 | Emergebat longitudinem Insulæ Majoris ab ejus termino septentrionali. | | | | |
| | | | Parallelus per locum Immersionis ad Boream à Creta ipsius Diametrum, per limbum Boreum Sirbonis & Climacem transibat. | | | | |
| | 9 05 56 | 10 26 | Lunæ Diameter —— *Tunc densæ nubes.* | 6791 | = 33 52 | | |
| | | | Dist. à Vert. ° ' " \| Horr. suppu. h ' " \| Err. Horol. ' " | | | | |
| ♀ 29 | 6 03 47 | | 61 01 00 \| 6 07 52 \| + 4 05 | | | | |
| | 05 55 | Lucidæ Arietis | 60 41 10 \| 09 56 \| + 4 01 | | | | |
| | 08 02 | | 60 20 50 \| 12 05 \| + 4 03 | | | | |
| | 10 14 | | 60 00 50 \| 14 15 \| + 4 01 | | | | |
| | 12 20 | | 59 41 00 \| 16 22 \| + 4 02 | | | | |
| | 9 49 00 | 9 53 00 | ☽'s Diam. Part. per Mic. 6710 | | | | |
| | 54 34 | 58 34 | —— rep. 6709 | | | | |
| | 10 11 07 | 10 15 07 | Lunæ limb. rem à Palilicio - | 16 27 55 | 394 33 | 16 27 45 | |
| | 13 20 | 17 20 | —— rep. | 16 29 15 | 394 94 | 16 29 16 | ☽ in ♊ 21°⅔ Lat. Aust. 4⅔. |
| | 17 43 | 21 43 | Lunæ limb. prox. ab humero Orionis sequente —— | 10 20 20 | 247 47 | 10 20 12 | |
| | 19 53 | 23 53 | —— rep. | 10 20 05 | 247 38 | 10 19 58 | |
| | 23 09 | 27 09 | Lunæ limb. rem. à Palilicio - | 16 34 25 | 397 03 | 16 34 35 | |
| | 25 13 | 29 13 | —— rep. | 16 35 35 | 397 43 | 16 35 35 | |
| | 28 40 | 32 40 | Palilicium ab humero Orionis —— | 21 23 15 | 512 13 | 21 23 20 | |
| | | | Dist. à Vert. ° ' " \| Horr. suppu. h ' " \| Err. Horol. ' " | | | | |
| ☽ Nov. 22 | 5 40 32 | | 51 41 50 \| 5 27 09 \| —13 23 | | | | |
| | 45 01 | Lucidæ Arietis | 51 00 50 \| 31 40 \| —13 21 | | | | |
| | 47 08 | | 50 41 50 \| 33 47 \| —13 21 | | | | |
| | 49 24 | | 50 21 30 \| 36 01 \| —13 23 | | | | |
| | 51 39 | | 50 01 30 \| 38 20 \| —13 19 | | | | |
| | 7 26 05 | 7 12 40 | Lunæ limb. prox. à lucida in Collo Andromedæ δ | 28 45 00 | 688 23 | 28 44 57 | |
| | 27 28 | 14 03 | —— rep. | 28 45 45 | 688 43 | 28 45 27 | |
| | 32 01 | 18 36 | Lunæ limb. rem. à lucida Pleajdum —— | 29 55 20 | 716 30 | 29 55 14 | |

| | ANNO CHRISTI 1680. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|
| | | | | (Luna in Nonagesimo) | | | |
| ☽ in ♈ 26°½ Lat. Aust. 3½ | ☽ Nov. 22 | 7 34 01 | 7 20 36 | Lunæ lim. prox. à lucid. Plejad. | 29 54 15 | 715 90 | 29 54 14 |
| | | 35 28 | 22 03 | ——— iter. | 29 53 25 | 715 64 | 29 53 34 |
| | | 39 42 | 26 17 | Lunæ limb. prox. ab Andromedæ ♂ | 28 47 45 | 689 24 | 28 47 28 |
| | | 41 36 | 28 11 | ——— rep. | 28 48 05 | 689 36 | 28 47 46 |
| | | 46 53 | 33 28 | Lucida Plejad. ab Androm. lucida in Collo, ♂ bis | 41 58 50 | 1005 20 | 41 58 35 |
| | ♂ 23 | | ☞ | Reduxi Indices Horologiorum 24'; deindè pro Errore investigando distantias à Vertice cepi. | | | |
| | | | | Dist. à Vert. ° ' " — Hor. supputat. h. ' " — Err. Horol. ' " | | | |
| | | 6 51 06 | | 64 01 30 — 7 00 57 — + 9 51 | | | |
| | | 53 18 | | 63 41 20 — 03 08 — + 9 50 | | | |
| | | 55 30 | Palilicii | 63 20 40 — 05 21 — + 9 51 | | | |
| | | 57 50 | | 63 00 10 — 07 21 — + 9 51 | | | |
| | | 59 52 | | 62 40 50 — 09 40 — + 9 48 | | | |
| | ☿ 24 | 6 36 35 | 6 45 32 | Lunæ limb. rem. à Palilicio | 08 45 10 | 209 56 | 08 45 20 |
| | | 43 54 | 52 51 | ——— rep. | 08 41 25 | 208 00 | 08 41::24 |
| | | 45 46 | 54 43 | ——— iter. | 08 40 30 | | |
| | | 47 58 | 56 55 | ——— iter. | 08 38 55 | 207 02 | 08 38 57 |
| ☽ in ♉ 27° Lat. Aust. 5⅔ | | 52 05 | 7 01 02 | Lunæ limb. rem. à prima Hyadum | 04 40 05 | 111 82 | 04 40 22 |
| | | 7 00 20 | 09 17 | Lunæ limb. rem. à Capella | 34 35 45 | 828 56 | 34 36 18 |
| | | 02 02 | 10 59 | ——— rep. | 34 35 15 | 828 30 | 34 35 39 |
| | | 05 43 | 14 40 | Lunæ limb. rem. a Palilicio | 08 28 55 | 203 05 | 08 29 00 |
| | | 07 25 | 16 22 | ——— rep. | 08 28 05 | 202 65 | 08 28 00 |
| | | | | Dist. à Vert. ° ' " — Hor. supput. h. ' " — Err. Horol. ' " | | | |
| | ♄ 27 | 7 01 04 | | 60 21 40 — 7 07 15 — + 6 11 | | | |
| | | 03 21 | | 60 00 50 — 09 33 — + 6 12 | | | |
| | | 05 32 | Palilicii | 59 41 10 — 11 42 — + 6 10 | | | |
| | | 07 46 | | 59 21 00 — 13 56 — + 6 10 | | | |
| | | 09 48 | | 59 02 10 — 16 00 — + 6 12 | | | |
| | | | | Part. per Mic. | | | |
| | | 19 50 | 7 25 55 | ☽æ Diam. — 6750 | | | |
| | | 25 00 | 31 05 | ——— rep. — 6752 | | | |
| | | 9 24 47 | 9 30 52 | Lunæ limb. rem. à lucido pede Geminorum | 10 10 20 | 243 51 | 10 10 18 |
| | | 27 36 | 33 41 | ——— rep. | 10 11 55 | 244 15 | 10 11 54 |
| ☽ in ♋ 14°½ Lat. Aust. 5 | | 32 57 | 39 02 | Lunæ limb. prox. à Polluce | 12 29 35 | 299 45 | 12 30 18 |
| | | 35 02 | 41 07 | ——— rep. | 12 29 20 | 299 35 | 12 30 03 |
| | | 39 40 | 45 45 | Lunæ limb. rem. à lucido pede Geminorum | 10 18 25 | 246 78 | 10 18 29 |
| | | 43 11 | 49 16 | ——— rep. | 10 20 35 | 247 58 | 10 20 28 |
| | ♄ Dec. 18 | 7 46 26 | 7 29 16 | Lunæ limb. rem. à Mandibula Ceti | 33 52 50 | 811 21 | 33 52 54 |
| | | 50 12 | 33 02 | ——— rep. | 33 51 15 | 810 48 | 33 51 05 |
| | | 55 08 | 37 58 | Lunæ limb. rem. à Capite Andromedæ | 27 49 40 | 666 29 | 27 50 01 |

| Anno Christi 1680. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h. ' '' | *Tempora ex Altitud. Correcta.* h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | *Distantiæ per lineas diagonales.* ° ' '' | *Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ' '' | |
|---|---|---|---|---|---|---|---|
| ♄ Dec. 18 | 7 57 43 | 7 40 33 | Lunæ limb. prox. ab eadem — | 27 17 40 | 653 43 | 27 17 46 | |
| | 8 00 10 | 43 00 | Lunæ lim. rem. ab eadem iter. | 27 49 25 | 666 18 | 27 49 45 | |
| | 02 40 | 45 30 | Lunæ limb. rem à Mandibula Ceti | 33 46 00 | 808 35 | 33 45 45 | ☽ in ♈ 7°¼ Lat. Aust. 1¾. |
| | 05 13 | 48 03 | rep. | 33 45 10 | 807 98 | 33 44 50 | |
| | 08 21 | 51 11 | Andromedæ Caput à lucidâ ad Mandibulam Ceti — | 48 09 20 | 1153 18 | 48 09 22 | |
| | | | *Dist. à Vert.* ° ' '' \| *Hor. suppt.* h. ' '' \| *Err. Horol.* ' '' | | | | |
| | 19 56 | Lucidi Ped. Geminor. | 55 40 50 \| 8 02 40 \| —17 16 | | | | |
| | 22 14 | | 55 20 30 \| 05 02 \| —17 12 | | | | |
| | 24 28 | | 55 00 30 \| 07 17 \| —17 11 | | | | |
| | 26 38 | | 54 41 30 \| 09 24 \| —17 14 | | | | |
| | 29 02 | | 54 20 40 \| 11 46 \| —17 16 | | | | |
| | | | *Part. per Mic.* ' '' | | | | |
| | 45 00 | 8 27 45 | ☽ᵉ Diam. 6440 = 32 07 | | | | |
| | 49 00 | 31 45 | —— rep. 6425 = 32 03 | | | | |
| | | | *Dist. à Vert.* ° ' '' \| *Hor. suppt.* h. ' '' \| *Err. Horol.* ' '' | | | | |
| ♂ 21 | 7 16 25 | Palilicii | 47 01 10 \| 6 54 36 \| —21 49 | | | | |
| | 19 06 | | 46 41 10 \| 57 12 \| —21 54 | | | | |
| | 21 53 | | 46 19 40 \| 7 00 04 \| —21 49 | | | | |
| | 40 30 | 7 18 40 | Lunæ limbus rem. à Palilicio | 14 53 20 | 356 70 | 14 53 35 | |
| | 43 35 | 21 45 | rep. | 14 52 15 | 356 24 | 14 52 25 | |
| | 56 35 | 34 45 | Lunæ limb. prox. à Capite Medusæ | 26 58 50 | 645 84 | 26 58 45 | |
| | 58 46 | 36 56 | rep. | 26 58 30 | 645 68 | 26 58 21 | |
| | 8 06 40 | 44 50 | Lunæ limb. rem. à Palilicio | 14 41 40 | 351 98 | 14 41 46 | ☽ in ♉ 21° Lat. Aust. 4¼. |
| | 08 22 | 46 32 | rep | 14 40 55 | 351 66 | 14 40 58 | |
| | 13 05 | 51 15 | Lunæ limb. prox. à Capite Medusæ | 26 58 25 | 645 68 | 26 58 21 | |
| | 15 32 | 53 45 | rep. | 26 58 10 | 645 57 | 26 58 05 | |
| | 18 04 | 56 18 | Palilicium à Capite Medusæ | 30 53 40 | 739 70 | 30 54 02 | |
| **Anno Christi MDCLXXXI.** | | | | | | | |
| | | | *Dist. à Vert.* ° ' '' \| *Hor. suppt.* h. ' '' \| *Err. Horol.* ' '' | | | | |
| ♃ Jan. 13 | 6 26 22 | | 54 45 10 \| 6 24 21 \| — 2 01 | | | | |
| | 29 02 | | 54 20 20 | | | | |
| | 31 15 | Pollucis | 53 59 00 \| 6 29 19 \| — 1 56 | | | | |
| *vel* | 33 11 | | 53 41 10 | | | | |
| | 35 32 | | 53 19 40 \| 6 33 32 \| — 2 00 | | | | |
| ♀ 14 *mane* | 23 54 33 | 23 52 30 | Lunæ limb. prox. à Solis prox. | 55 22 05 | 1326 10 | 55 22 21 | |
| | 56 35 | 54 38 | rep. | 55 23 00 | 1326 38 | 55 23 03 | |
| | 57 48 | 55 51 | Lunæ limb. prox. à Solis rem. | 55 56 20 | 1339 60 | 55 56 06 | |
| | 59 00 | 57 03 | rep. | 55 57 00 | 1338::92 | 55::54 24 | ☽ in ♈ ..° Lat. Aust. 1. |
| ☉ 16 | 6.10 12 | 6 08 22 | Lunæ limb. remot. à Palilicio | 34 01 15 | 814 46 | 34 01 03 | |
| | 12 20 | 10 30 | rep. | 34 00 35 | 814 19 | 34 00 23 | |
| | 15 58 | 14 08 | Lunæ limb. rem. à 2ª Arietis | 12 16 40 | 294 02 | 12 16 42 | ☽ in ♉ 1°½ Lat. Aust. 3 |
| | 17 49 | 15 59 | rep. | 12 16 50 | 294 04 | 12 16 45 | |
| | 22 02 | 20 12 | Lunæ limb. rem. à Palilicio | 33 56 20 | 812 48 | 33 56 15 | |
| | 23 24 | 21 34 | rep. | 33 55 40 | 812 20 | 33 55 22 | |

| Margin | Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | | | | Dist. à Vert. ° ′ ″ | | | |
| | ♀ Jan. 21 | 6 28 10 | | 49 29 10 | | | |
| | | 30 57 | | 49 03 00 | | | |
| | | 33 20 | Pollucis | 48 40 50 | | | |
| | | 35 52 | | 48 17 20 | | | |
| | | 38 09 | | 47 55 30 | | | |
| | | 7 22 42 | 7 21 02 | Lunæ limb prox. à Palilicio – | 39 07 45 | 936 99 | 39 07 32 |
| | | 25 11 | 23 31 | ——— rep. | 39 08 55 | 937 49 | 39 08 48 |
| | | 30 41 | 29 01 | Lunæ limb. rem. à Polluce – | 12 51 00 | 307 90 | 12 51 27 |
| | | 32 18 | 30 38 | ——— rep. | 12 50 35 | 307 72 | 12 51 00 |
| ☽ in ♋ 15° Lat. Aust. 5½ | | 36 06 | 34 26 | Lunæ limb. prox. à Palilicio | 39 14 05 | 939 51 | 39 13 51 |
| | | 37 42 | 36 02 | ——— rep. | 39 14 45 | 939 79 | 39 14 33 |
| | | | | Dist. à Vert. ° ′ ″ \| Hor. supput. h. ′ ″ \| Err. Horol. ′ ″ | | | |
| | ♄ 22 | 8 14 40 | Lucidæ in Juba Leonis | 61 41 30 \| 8 13 05 \| — 1 35 | | | |
| | | 17 15 | | 61 17 30 \| 15 39 \| — 1 36 | | | |
| | | 18 21 | | 61 05 20 \| 16 58 \| — 1 33 | | | |
| | | 39 42 | 8 38 07 | Lunæ limb. prox. ab humero Orionis sequente — | 36 48 30 | 881 40 | 36 48 28 |
| | | 42 30 | 40 55 | ——— rep. | 36 49 50 | 882 04 | 36 50 05 |
| | | 45 22 | 43 47 | Lunæ limb. prox. à Castore – | 20 16 45 | 485 69 | 20 16 54 |
| | | 47 06 | 45 31 | ——— rep. | 20 17 15 | 485 86 | 20 17 19 |
| ☽ in ♌ 0°½ Lat. Aust. 4½ | | 49 22 | 47 47 | Lunæ limb. prox. ab humero sequente Orionis — | 36 53 00 | 883 28 | 36 53 10 |
| | | 51 28 | 49 53 | ——— rep. | 36 53 45 | 883 59 | 36 53 57 |
| | | | | Part, par Mic. ′ ″ | | | |
| | ☉ 23 | 7 50 00 | 7 48 30 | ☽æ Diam. \| 6554 \| = 32 42 | | | |
| | | 54 48 | 53 18 | —— rep. \| 6555 \| = 32 44 | | | |
| | | | | Dist. à Vert. ° ′ ″ \| Hor. Supput h. ′ ″ \| Err. Hor. ′ ″ | | | |
| | | 8 06 10 | Lucidæ in Juba Leonis | 62 21 50 \| 8 04 41 \| — 1 29 | | | |
| | | 08 24 | | 62 00 50 \| 06 56 \| — 1 28 | | | |
| | | 10 30 | | 61 41 30 \| 09 00 \| — 1 30 | | | |
| | | 13 06 | | 61 17 10 \| 11 35 \| — 1 31 | | | |
| | | 28 11 | 8 26 41 | Lunæ limb. prox. à Regulo | 11 16 30 | 269 89 | 11 16 18 |
| | | 32 06 | 30 36 | ——— rep. | 11 14 30 | 269 16 | 11 14 28 |
| | | 34 06 | 32 36 | Lunæ limb. rem. à Regulo — | 11 46 10 | 281 79 | 11 46 06 |
| | | 36 03 | 34 33 | ——— rep. | 11 45 30 | 281 49 | 11 45 21 |
| ☽ in ♌ 14°¾ Lat. Aust. 3¾ | | 41 33 | 40 03 | Lunæ limb. rem. à lucida in Capite Leonis ε — | 13 42 05 | 328 32 | 13 42 34 |
| | | 43 26 | 41 56 | ——— rep. | 13 41 50 | 328 25 | 13 42 24 |
| | | 44 49 | 43 19 | Lunæ lim. prox. ab eadem Fixâ | 13 09 10 | 315 15 | 13 09 36 |
| | | 46 15 | 44 45 | Lunæ limb. remot. iterat. — | 13 41 40 | 328 15 | 13 42 09 |
| | | 50 30 | 49 02 | Lunæ limb. rem. à Regulo — | 11 38 40 | 278 84 | 11 38 42 |
| | | ::53 18 | 51 48 | ——— rep. | 11 37 40 | 278 43 | 11 37 40 |
| | | 54 16 | 52 46 | Lunæ limb. prox. à Regulo — | 11 04 15 | 265 02 | 11 04 07 |
| | | 56 05 | 54 35 | ——— rep. | 11 03 15 | 264 51 | 11 02 51 |
| | | 9 00 28 | 58 58 | Regulus ab ε in Capite Leonis — | 12 58 25 | 310 63 | 12 58 16 |
| | | 04 24 | 9 02 54 | ——— iter. *Pro Parallaxi investiganda repetita.* | 12 58 25 | 310 63 | 12 58 16 |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ☉ Jan. 23 | 16 02 14 | 16 00 44 | Lunæ limb. prox. à Regulo — | 08 05 05 | 193 66 | 08 05 30 | |
| | 04 30 | 03 00 | ——— rep. | 08 03 50 | 193 23 | 08 04 24 | |
| | 06 14 | 04 44 | Lunæ limb. rem. à Regulo – | 08 35 20 | 205 85 | 08 36 01 | |
| | 08 21 | 06 51 | ——— rep. | 08 34 25 | 205 49 | 08 35 07 | |
| | 13 04 | 11 34 | Lunæ limb. prox. & Leonis ε | 13 11 20 | 316 16 | 13 12 07 | |
| | 15 02 | 13 32 | ——— rep. | 13 11 45 | 316 33 | 13 12 33 | |
| | 16 30 | 15 00 | Lunæ limb. rem. ab eadem ε | 13 44 20 | 329 30 | 13 45 01 | |
| | 18 23 | 16 53 | ——— rep. | 13 44 25 | 329 36 | 13 45 10 | |
| | 20 02 | 18 32 | Lunæ lim. prox. ab eadem iter. | 13 12 00 | 316 41 | 13 12 45 | |
| | 23 37 | 22 07 | Lunæ limb. remotus à Regulo | 08 27 25 | 202 68 | 08 28 05 | |
| | 25 38 | 24 08 | ——— rep. | 08 26 30 | 202 36 | 08 27 17 | |
| | 27 39 | 26 09 | Lunæ limbus prox. à Regulo | 07 53 20 | 188 95 | 07 53 45 | |
| | 30 10 | 28 40 | ——— rep. | 07 52 10 | 188 49 | 07 52 33 | |
| | | | *Dist. à Vert.* ° ′ ″ · *Hor. supput.* h. ′ ″ · *Err. Horol.* ′ ″ | | | | |
| | 17 32 06 | Lucidæ in Juba Leonis | 60 51 20 · 17 30 41 · — 1 25 | | | | |
| | 34 54 | | 61 17 25 · 33 29 · — 1 25 | | | | |
| | 37 25 | | 61 41 10 · 36 01 · — 1 24 | | | | |
| | 39 30 | | 62 00 20 · 38 04 · — 1 26 | | | | |
| | | | *Part. per Mic.* · ′ ″ | | | | |
| | 49 00 | 17 47 30 | ☽æ Diam. · 6455 · = 32 12 | | | | |
| | 54 00 | 52 30 | ——— rep. · 6460 · = 32 13 | | | | |
| | | | *Dist. à Vert.* ° ′ ″ · *Hor. supput.* h ′ ″ · *Err. Horolog.* ′ ″ | | | | |
| ☽ 24 | 8 02 20 | Lucidæ in Juba Leonis | 62 21 00 · 8 00 44 · — 1 36 | | | | |
| | 04 34 | | 62 00 20 · 02 57 · — 1 37 | | | | |
| | 07 50 | | 61 29 55 · 06 13 · — 1 37 | | | | |
| | 09 14 | | 61 16 40 · 07 37 · — 1 37 | | | | |
| | 9 24 25 | 9 22 48 | Lunæ limb. prox. à lucida in lumbis Leonis ——— | 18 11 10 | 435 64 | 18 11 15 | |
| | 26 31 | 24 54 | ——— rep. | 18 10 40 | 435 45 | 18 10 45 | |
| | 30 13 | 28 36 | Lunæ limb. rem & Cor Leonis | 05 06 50 | 122 21 | 05 06 25 | |
| | 32 14 | 30 37 | ——— rep. | 05 07 40 | 122 55 | 05 07 16 | ☽ in ♌ 29½°. Lat. Aust. 2½. |
| | 35 48 | 34 11 | Lunæ limb. prox. & lucida in lumbis Leonis ——— | 18 08 40 | 434 63 | 18 08 44 | |
| | 38 04 | 36 27 | ——— rep. | 18 08 00 | 434 40 | 18 08 09 | |
| | 40 34 | 38 57 | Cor, à lucida in lumbis Leonis ——— | 17 54 15 | 428 95 | 17 54 28 | |
| | | | *Dist. à Vert.* ° ′ ″ · *Hor. supput.* h ′ ″ · *Err. Horol.* ′ ″ | | | | |
| ♂ Feb. 22 | 6 36 00 | | 58 40 30 · 6 33 07 · — 2 53 | | | | |
| | 38 04 | Lucidæ in Juba Leonis | 58 20 50 · 35 13 · — 2 51 | | | | |
| | 40 10 | | 58 01 10 · 37 20 · — 2 50 | | | | |
| | 42 22 | | 57 40 50 · 39 31 · — 2 51 | | | | |
| | 44 20 | | 57 22 30 · 41 29 · — 2 51 | | | | |
| | | | *Part. per Mic.* · ′ ″ | | | | |
| | 8 07 28 | 8 04 38 | ☽æ Diam. · 6323 · ::=31 32 | | | | |
| | 11 06 | 08 16 | meliùs rep. · 6285 · =31 21 | | | | |
| | 9 12 24 | 9 09 34 | — iterata · 6303 · =31 29 | | | | |
| | 24 24 | 21 34 | Lunæ limb. rem. à Regulo — | 25 44 20 | 616 28 | 25 44 33 | |
| | 26 01 | 23 11 | ——— rep. | 25 45 20 | 616 52 | 25 45 09 | |
| | | | *Luna plena.* | | | | |

| | ANNO CHRISTI 1681. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' '' | Tempora ex Altitudinibus Correcta. h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ' '' | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' '' |
|---|---|---|---|---|---|---|---|
| | ♂ Feb. 22 | | | *Per tenues Nubes, quas densiores, secutæ Observationes continuare non permisêre.* | | | |
| | | | | *Dist. à Vert.* ° ' '' \| *Hor. supp.* h ' '' \| *Err. Horol.* ' '' | | | |
| | ☿ 23 | 8 49 32 | | 55 21 25 \| 8 46 45 \| — 2 47 | | | |
| | | 51 46 | Caudæ Leonis | 55 01 30 \| 49 01 \| — 2 45 | | | |
| | | 54 04 | | 54 41 20 \| 51 17 \| — 2 47 | | | |
| ☽ in ♎ 4°. Lat. Bor. 0½. | | 56 26 | | 54 20 50 \| 53 37 \| — 2 49 | | | |
| | | 58 38 | | 54 00 50 \| 55 34 \| — 2 44 | | | |
| | | 9 26 36 | 9 23 51 | Lunæ limb. prox. ab Arcturo | 33 32 40 | 803 06 | 33 32 32 |
| | | 32 39 | 29 54 | Lunæ limb. rem. à lucida in lumbis Leonis | 30 25 40 | 728 43 | 30 25 42 |
| | | 37 03 | 34 18 | Lunæ limb. prox. ab Arcturo | 33 30 30 | 802 21 | 33 30 24 |
| | | | | *Luna in æquali Altit. cum Arcturo ferè existente, diligenter habita Observatione.* | | | |
| | | | | *Dist. à Vert.* ° ' '' \| *Hor. supputat.* h ' '' \| *Err. Horol.* ' '' | | | |
| | ☽ Mar. 14 | 20 08 28 | | 69 01 10 \| 20 09 27 \| + 0 59 | | | |
| | *vel* | 10 56 | Limbi Solis inferioris | 68 40 20 \| 11 55 \| + 0 59 | | | |
| | ♂ 15 | 13 19 | | 68 20 20 \| 14 12 \| + 0 53 | | | |
| | *mane* | 15 40 | | 68 00 40 \| 16 39 \| + 0 59 | | | |
| | | 18 06 | | 67 40 50 \| 19 01 \| + 0 55 | | | |
| | | | | *Part. per Mic.* ' '' | | | |
| | ☿ 23 | 8 08 46 | 8 11 30 | ☽æ Diam. \| 6115 \| = 30 30 | | | |
| | | 11 36 | 14 20 | ——— rep. \| 6129 \| = 30 34 | | | |
| | | 9 20 50 | 9 23 35 | Lunæ limb. prox. & lucida Coronæ | 48 20 50 | 1157 92 | 48 21 16 |
| | | 22 56 | 25 41 | ——— rep. | 48 20 30 | 1157 78 | 48 20 55 |
| ☽ in ♎ 12°½ Lat. Bor. 1½ | | 29 08 | 31 53 | Lunæ limb. rem. à Spica Virginis | 08 02 10 | 192 26 | 08 02 00 |
| | | 31 43 | 34 28 | ——— rep. | 08 00 55 | 191 77 | 08 00 47 |
| | | 36 43 | 39 28 | Lunæ limb. prox. à lucida Coronæ | 48 18 20 | 1156 93 | 48 18 46 |
| | | 38 50 | 41 45 | ——— rep. | 48 18 10 | 1156 86 | 48 18 36 |
| | | 41 21 | 44 06 | Lucida Coronæ à Spica Virginis | 49 12 40 | 1178 48 | 49 12 50 |
| | | | | *Dist. à Vert.* ° ' '' \| *Hor. supput.* h ' '' \| *Err. Horol.* ' '' | | | |
| | ♃ 24 | 8 34 26 | | 59 51 30 \| 8 37 23 \| + 2 57 | | | |
| | | 36 31 | | 59 32 00 \| 39 26 \| + 2 55 | | | |
| | | 38 49 | Arcturi | 59 10 40 \| 41 44 \| + 2 55 | | | |
| | | 40 49 | | 58 52 20 \| 43 42 \| + 2 53 | | | |
| | | 43 00 | | 58 31 30 \| 45 56 \| + 2 56 | | | |
| | | 52 27 | 8 55 22 | Lunæ limb. remot. à Spica Virginis | 07 07 50 | 170 49 | 07 07 25 |
| ☽ in ♎ 24°½ Lat. Bor. 2½ | | 54 05 | 57 00 | ——— rep. | 07 08 15 | 170 75 | 07 08 04 |
| | | 56 52 | 59 47 | Lunæ limb. rem. à Vindemiat. | 23 41 40 | 567 30 | 23 41 48 |
| | | 58 51 | 9 01 46 | ——— rep. | 23 42 25 | 567 59 | 23 42 32 |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ♃ Mar. 24 | 9 01 36 | 9 04 31 | Lunæ limbus rem. à Spica Virginis | 07 10 45 | 171 72 | 07 10 32 | |
| | 03 14 | 06 09 | rep. | 07 11 10 | 171 93 | 07 11 03 | |
| | | | *Dist. à Vert.* ° ' " ; *Hor. suppus.* h ' " ; *Err. Horol.* ' " | | | | |
| ☿ Apr. 20 | 20 21 56 | | 55 11 00 ; 20 31 10 ; + 9 14 | | | | |
| | 24 08 | Limbi Solis inferioris. | 54 52 10 ; 33 20 ; + 9 12 | | | | |
| | 26 37 | | 54 30 50 ; 35 48 ; + 9 11 | | | | |
| | 28 48 | | 54 11 40 ; 38 01 ; + 9 13 | | | | |
| | | | *Post Meridiem.* | | | | |
| ♃ 21 | 3 42 41 | | 58 30 20 ; 3 51 52 ; + 9 11 | | | | |
| | 44 57 | Limbi Solis inferioris | 58 50 50 ; 54 09 ; + 9 12 | | | | |
| | 47 16 | | 59 11 20 ; 56 25 ; + 9 09 | | | | |
| | 49 30 | | 59 31 10 ; 58 37 ; + 9 07 | | | | |
| | 51 42 | | 59 51 10 ; 4 00 50 ; + 9 08 | | | | |
| | 9 31 23 | 9 40 35 | Lunæ lim. prox. à Vindemiat. | 30 28 35 | 729 60 | 30 28 39 | |
| | 33 52 | 43 04 | rep. | 30 29 40 | 729 98 | 30 29 36 | |
| | 39 12 | 48 24 | Lunæ limb. prox. à lucida in Collo Serpentis | 26 05 15 | 624 73 | 26 05 45 | |
| | 40 37 | 49 49 | rep. | 26 04 55 | 624 61 | 26 05 25 | |
| | 45 11 | 54 23 | Lunæ lim. prox. à Vindemiat. | 30 33 35 | 731 59 | 30 33 39 | |
| | 46 56 | 56 08 | rep. | 30 34 05 | 731 82 | 30 34 13 | ☽ in ♏ 3°½ Lat. Bor. 2½ |
| | 50 07 | 59 19 | Lunæ limb. prox. à Spica Virginis | 14 55 10 | 357 35 | 14 55 12 | |
| | 53 25 | 10 02 37 | rep. | 14 55 45 | 357 69 | 14 56 03 | |
| | | | *Dist. à Vert.* ° ' " ; *Hora suppus.* h. ' " ; *Err. Horol.* h. ' " | | | | |
| ♀ 22 | 3 55 20 | | 60 11 30 ; 4 04 38 ; + 9 18 | | | | |
| | 57 26 | Sol. limbi inferioris | 60 31 00 ; 06 46 ; + 9 20 | | | | |
| | 59 37 | | 60 50 50 ; 08 56 ; + 9 19 | | | | |
| | 4 02 58 | | 61 21 10 ; 12 15 ; + 9 17 | | | | |
| | 05 18 | | 61 42 40 ; 14 36 ; + 9 18 | | | | |
| ♂ 26 | 3 56 07 | | 59 31 20 ; 4 06 02 ; + 9 55 | | | | |
| | 58 20 | Sol. limbi inferioris | 59 51 30 ; 08 15 ; + 9 55 | | | | |
| | 4 00 26 | | 60 10 55 ; 10 22 ; + 9 56 | | | | |
| | 02 38 | | 60 31 10 ; 12 34 ; + 9 56 | | | | |
| | 04 47 | | 60 50 40 ; 14 41 ; + 9 54 | | | | |
| ☿ 27 *vel* | 14 43 32 | 14 53 32 | Lunæ limb. prox. ab Humero antecedente Aquarii | 31 18 05 | 749 36 | 31 18 13 | |
| ♃ 28 *mane* | 46 32 | 56 32 | rep. | 31 17 10 | 748 91 | 31 17 06 | |
| | 51 44 | 15 01 44 | Lunæ limb. rem. & Austrina in Cauda Vulturis | 32 54 55 | 787 91 | 32 54 39 | ☽ in ♑ 17°½ Lat. Bor. 4. |
| | 53 53 | 03 53 | rep. | 32 55 05 | 787 93 | 32 54 42 | |
| | 15 00 08 | 10 08 | Lunæ limb. prox. ab Humero Aquarii antecedente | 31 12 25 | 747 09 | 31 12 33 | |
| | 02 04 | 12 04 | rep. | 31 11 55 | 746 84 | 31 11 55 | |
| | 05 51 | 15 51 | Humerus Aquarii dictus à dicta Vulturis | 41 06 50 | 984 64 | 41 07 02 | |
| | 08 20 | 18 20 | rep. | 41 07 00 | 984 69 | 41 07 09 | |

| | Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | | | | Dist. à Vert. ° ′ ″ · Hor. supput. h ′ ″ · Err. Horol. ′ ″ | | | |
| | ♃ Maij 5 | 20 48 03 | | 48 20 20 · 20 56 44 · + 8 41 | | | |
| | vel | 50 30 | Limbi Solis inferioris. | 47 59 30 · 59 11 · + 8 41 | | | |
| | ♀ 6 | 52 53 | | 47 40 20 · 21 01 28 · + 8 35 | | | |
| | mane | 55 18 | | 47 19 20 · 03 57 · + 8 39 | | | |
| | | 56 59 | | 47 05 10 · 05 39 · + 8 40 | | | |
| ☽ in ♌ 26°½ Lat. Aust. 2¼. | ♀ 13 | 9 22 48 | 9 30 18 | Lunæ limb prox. & lucida in Cervice Leonis γ | 11 14 15 | 269 28 | 11 14 46 |
| | | 25 12 | 32 42 | rep. | 11 14 25 | 269 35 | 11 14 57 |
| | | 30 10 | 37 40 | Lunæ limb. rem. à Spica Virginis | 53 20 05 | 1277 30 | 53 20 20 |
| | | 32 24 | 39 54 | rep. | 53 18 55 | 1276 82 | 53 19 13 |
| | | 39 03 | 46 33 | Lunæ limb. prox. à lucida Cervicis Leonis, γ iterat. | 11 15 05 | 269 58 | 11 15 31 |
| | | 40 32 | 48 02 | rep. | 11 15 05 | 269 59 | 11 15 32 |
| | | | | Dist. à Vert. ° ′ ″ · Hor. supput. h ′ ″ · Err. Horol. ′ ″ | | | |
| | ☽ 16 | 3 48 13 | | 54 29 00 · 3 55 25 · + 7 12 | | | |
| | | 50 40 | Sol. limbi inferioris | 54 51 40 · 57 53 · + 7 13 | | | |
| | | 52 48 | | 55 11 00 · 4 00 00 · + 7 12 | | | |
| | | 55 23 | | 55 34 40 · 02 33 · + 7 10 | | | |
| | | 57 04 | | 55 50 10 · 04 14 · + 7 10 | | | |
| | | 10 45 25 | 10 52 25 | Lunæ limb. prox. à lucida in Cervice Leonis γ | 40 52 20 | 979 14 | 40 53 15 |
| ☽ in ♎ 5°½ Lat. Bor. 1. | | 47 37 | 54 37 | rep. | 40 53 25 | 979 42 | 40 53 57 |
| | | 52 06 | 59 06 | Lunæ limb. rem. ab Arcturo | 33 16 10 | 796 63 | 33 16 27 |
| | | 53 31 | 11 00 31 | rep. | 33 15 55 | 796 53 | 33 16 12 |
| | | 57 06 | 04 06 | Lunæ limb. prox. à γ Leonis iter. | 40 57 40 | 981 10 | 40 58 09 |
| | | 59 19 | 06 19 | rep. | 40 58 40 | 981 52 | 40 59 12 |
| | ♂ 17 | 9 21 30 | 9 28 10 | Lunæ limb. rem. à manu Ophiuchi Yed | 42 20 50 | 1014 07 | 42 20 46 |
| | | 23 10 | 29 50 | rep. | 42 20 00 | 1013 78 | 42 20 03 |
| | | 27 40 | 34 20 | Lunæ lim. prox. à Vindemiat. | 18 45 35 | 449 15 | 18 45 06 |
| | | 29 39 | 36 19 | rep. | 18 46 00 | 449 28 | 18 45 25 |
| ☽ in ♎ 17°½ Lat. Bor. 1¼. | | 33 41 | 40 21 | Lunæ limb. rem. à Yed Ophiuchi | 42 16 50 | 1012 70 | 42 17 21 |
| | | 35 12 | 41 52 | rep. | 42 16 20 | 1012 49 | 42 16 50 |
| | | 39 00 | 45 40 | Yed Ophiuchi & Vindemiatr. | 49 58 25 | 1176 58 | 49 08 05 |
| | | | | *Manè sequente ab Observationibus à D. Casuellio habitis Horologium justo tardius 6′ 23″.* | | | |
| | | | | Dist. à Vert. ° ′ ″ · Hor. supput. h ′ ″ · Err. Horol. ′ ″ | | | |
| | ☽ 23 | 20 14 55 | Sol. limbi inferioris | 51 41 30 · 20 17 21 · + 2 26 | | | |
| | | 17 06 | | 51 21 30 · 19 37 · + 2 31 | | | |
| | | 19 26 | | 51 00 20 · 21 56 · + 2 30 | | | |
| | | | | *Hac die post Meridiem hora tertia ponderibus ad imum descensis stetit Horologium.* | | | |

| ANNO CHRISTI. 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ☿ Maij 25 | 14 02 20 | 13 58 10 | Lunæ limb. rem. ab Aquila – | 26 33 15 | 635 71 | 26 33 20 | |
| | 05 30 | 14 01 20 | ———— rep. | 26 33 35 | 635 87 | 26 33 44 | |
| | 10 01 | 05 51 | Lunæ limb. rem. ab ultima in Capite Sagittarii π — | 14 27 50 | 346 47 | 14 27 58 | ☽ in ♑ 26° Lat. Bor. 3. |
| | 12 32 | 08 22 | ———— rep. | 14 28 40 | 346 83 | 14 28 52 | |
| | 17 02 | 12 52 | Lunæ lim. rem. ab Aquila iter. | 26 33 25 | 635 79 | 26 33 32 | |
| | 20 04 | 15 54 | ———— rep. | 26 33 15 | 635 74 | 26 33 24 | |
| | | | Dist. à Vert. ° ′ ″ \| Hor. supput. h. ′ ″ \| Err. Horol. ′ ″ | | | | |
| | 20 19 28 | Limbi Solis inferioris | 51 50 50 \| 20 15 16 \| — 4 12 | | | | |
| | 21 46 | | 51 30 00 \| 17 27 \| — 4 19 | | | | |
| | 23 43 | | 51 11 10 | | | | |
| | 26 11 | | 50 50 00 \| 21 56 \| — 4 15 | | | | |
| | 28 09 | | 50 31 50 \| 23 56 \| — 4 13 | | | | |
| ♃ 26 | 14 16 22 | 14 11 52 | Lunæ limb. rem. ab ultima in Capite Sagittarii π — | 26 29 25 | 634 23 | 26 29 36 | |
| | 18 38 | 14 08 | ———— rep. | 26 29 55 | 634 42 | 26 30 05 | |
| | 21 50 | 17 20 | Lunæ limb. rem. ab Aquila – | 29 10 45 | 698 42 | 29 10 27 | ☽ in ♒ 18° 7½ Lat. Bor. 2½. |
| | 23 44 | 19 14 | ———— rep. | 29 11 00 | 698 52 | 29 10 42 | |
| | 27 34 | 23 04 | Lunæ limb. rem. ab ultima in Capite Sagittarii π iter. | 26 32 55 | 635 74 | 26 33 24 | |
| | 29 18 | 24 48 | ———— rep. | 26 33 45 | 636 03 | 26 34 07 | |
| | | | Dist. à Vert. ° ′ ″ \| Hora supput. h. ′ ″ \| Err. Horol. ′ ″ | | | | |
| ♀ Junij 10 | 20 42 59 | Limbi Solis inferioris | 48 31 20 \| 20 33 06 \| — 9 53 | | | | |
| | 45 14 | | 48 11 20 \| 35 18 \| — 9 56 | | | | |
| | 47 34 | | 47 50 20 \| 37 34 \| —10 00 | | | | |
| | 49 46 | | 47 30 50 \| 39 49 \| — 9 57 | | | | |
| | 51 58 | | 47 11 00 \| 42 02 \| — 9 56 | | | | |
| ♄ 11 | 9 43 18 | 9 33 12 | Lunæ limb. rem. ab Arcturo | 43 10 20 | 1033 99 | 43 10 40 | |
| | 45 40 | 35 34 | ———— rep. | 43 09 30 | 1033 69 | 43 09 55 | |
| | 49 53 | 39 47 | Lunæ limb. prox. à lucida in Cervice Leonis γ — | 25 18 50 | 606 05 | 25 18 54 | |
| | 51 40 | 41 34 | ———— rep. | 25 19 35 | 606 39 | 25 19 45 | |
| | 55 11 | 45 05 | Lunæ limb. anteced. ab Arcturo | 43 06 20 | 1032 40 | 43 06 42 | |
| | 56 46 | 46 40 | ———— rep. | 43 05 40 | 1032 12 | 43 06 00 | |
| | | | Dist. à Vert. ° ′ ″ \| Hor. supput. h ′ ″ \| Err. Horol. ′ ″ | | | | |
| ♄ 18 | 4 20 32 | Limbi Solis inferioris | 54 59 30 \| 4 08 17 \| —12 15 | | | | |
| | 22 56 | | 55 21 50 \| 10 42 \| —12 14 | | | | |
| | 23 55 | | 55 31 10 \| 11 42 \| —12 13 | | | | |
| | 24 59 | | 55 40 50 \| 12 44 \| —12 15 | | | | |
| | 26 09 | | 55 51 20 \| 13 52 \| —12 17 | | | | |
| | 10 49 15 | 10 36 55 | Lunæ limb. rem. ab Aquila – | 46 53 35 | 1123 16 | 46 54 10 | |
| | 51 08 | 38 48 | ———— rep. | 46 53 10 | 1123 01 | 46 53 48 | |
| | 55 32 | 43 12 | Lunæ limbus prox. à Yed Ophiuchi ———— | 21 37 45 | 517 89 | 21 37 48 | |
| | 57 29 | 45 09 | ———— rep. | 21 38 25 | 518 15 | 21 38 27 | ☽ in ♐ 15°½ Lat. Bor. 3½. |
| | 11 00 36 | 48 16 | Lunæ limb. remot. ab Aquila | 46 50 35 | 1121 98 | 46 51 12 | |
| | 02 06 | 49 46 | ———— rep. | 46 50 10 | 1121 79 | 46 50 44 | |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ ″ — Hora supput. h. ′ ″ — Err. Horol. ′ ″ | | | |
| ☽ Julij 11 | 20 45 12 | Limbi Solis inferioris | 51 51 50 — 20 27 28 — −17 44 | | | |
| | 47 31 | | 51 31 10 — 29 47 — −17 44 | | | |
| | 48 31 | | 51 22 20 — 30 46 — −17 46 | | | |
| | 50 55 | | 51 00 50 — 33 11 — −17 44 | | | |
| | 53 10 | | 50 41 00 — 35 25 — −17 45 | | | |
| ☿ 13 | 9 55 14 | 9 37 24 | Lunæ limb. rem. ab ultima in Capite Sagittarii π — | 54 02 30 | 1294 31 | 54 02 51 |
| | 58 31 | 40 41 | ——— rep. | 54 01 50 | 1293 95 | 54 01 57 |
| ☽ in ♏ 18° Lat. Bor. 3½. | 10 04 31 | 46 41 | Lunæ limb. rem. à Lucida in Collo Serpentis — | 21 54 55 | 525 10 | 21 55 54 |
| | 06 17 | 48 27 | ——— rep. | 21 54 55 | 525 10 | 21 55 54 |
| | 15 25 | 57 35 | Lunæ limb. remot. & Sagittarii π — | 53 55 10 | 1291 12 | 53 54 53 |
| | 17 38 | 59 48 | ——— rep. | 53 54 20 | 1290 89 | 53 54 18 |
| | 21 00 | 10 03 10 | Ultima in Capite Sagittarii π à lucid. in Collo Serpent. | 57 23 25 | 1374 18 | 57 22 30 |
| | | | Dist. à Vert. ° ′ ″ — Hor. supp. h ′ ″ — Err. Horol. ′ ″ | | | |
| ☿ 20 | 4 59 09 | Sol. limbi inferioris. | 63 40 20 — 4 40 32 — −18 37 | | | |
| | 5 00 16 | | 63 50 50 — 41 40 — −18 36 | | | |
| | 01 31 | | 64 02 10 — 42 53 — −18 38 | | | |
| | 02 28 | | 64 11 20 — 43 52 — −18 36 | | | |
| | 03 35 | | 64 21 20 — 44 56 — −18 39 | | | |
| | | | *Æquatio Dierum est* 5′ 49″; *quæ subducta Errori Horologii manent.* 12′ 50″. *Reduxi Minutorum Indicem* 13′. *Unde fit Error Horologii in sequentibus hujus Vesperæ Observatis* 5′ 40″. | | | |
| | 11 25 36 | 11 19 56 | Lunæ limb. prox. ab Aquila | 30 50 20 | 738 26 | 30 50 24 |
| | 27 30 | 21 50 | ——— rep. | 30 50 30 | 738 33 | 30 50 35 |
| | 32 25 | 26 45 | Lunæ lim. prox. à Mark. Pegasi | 39 41 40 | 950 91 | 39 42 27 |
| | 34 09 | 28 29 | ——— rep. | 39 41 05 | 950 69 | 39 41 54 |
| | 37 04 | 31 24 | ——— iterat. | 39 40 20 | 950 40 | 39 41 10 |
| | 40 03 | 34 23 | Denique *Luna in Nonagesimo.* | 39 38 55 | 949 95 | 39 40 03 |
| ☽ in ♒ 12°½ Lat. Bor. 2 | 45 04 | 39 24 | Lunæ limb. prox. ab Aquila. | 30 53 40 | 739 68 | 30 53 58 |
| | 48 27 | 42 47 | ——— rep. | 30 54 25 | | |
| | 50 42 | 45 02 | Lunæ limb. rem. ab Aquila — | 31 25 30 | 752 20 | 31 25 20 |
| ♂ 26 | 15 18 44 | 15 12 40 | Lunæ limb. prox. à Pede Boreo Aurigæ — *Tunc Nebeculæ.* | 42 22 50 | 1015 22 | 42 23 39 |
| | | | Dist. à Vert. ° ′ ″ — Horr. supput. h ′ ″ — Err. Horol. ′ ″ | | | |
| ☽ Aug. 1 | 4 29 54 | Sol. limbi inferioris. | 63 31 30 — 4 23 12 — − 6 42 | | | |
| | 30 51 | | 63 40 00 — 24 07 — − 6 44 | | | |
| | 32 26 | | 63 54 20 — 25 40 — − 6 46 | | | |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. Dist. à vert. ° ′ ″ | Hor. supputat. h. ′ ″ | Err. Horol. ′ ″ | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|---|---|
| ♃ Aug. 18 | 3 34 27 | Sol. limbi inferioris — | 60 02 00 | 3 29 28 | — 4 59 | | | | |
| | 36 44 | | 60 21 10 | 31 42 | — 5 02 | | | | |
| | 39 07 | | 60 41 50 | 34 09 | — 4 58 | | | | |
| | 41 29 | | 61 01 50 | 36 30 | — 4 59 | | | | |
| | 43 54 | | 61 22 20 | 38 53 | — 5 01 | | | | |
| | 12 27 11 | 12 22 11 | Lunæ limb. prox. & Aquarii λ | | | 02 35 00 | 62 02 | 02 35 21 | |
| | 29 33 | 24 33 | ——— rep. | | | 02 33 35 | 61 49 | 02 34 05 | |
| | 36 46 | 31 46 | Lunæ limb. rem. & Aquarii ζ | | | 09 11 40 | 219 90 | 09 11 12 | ☽ in ♓ 4° Lat. Aust. o. |
| | 38 13 | 33 13 | ——— rep. | | | 09 11 30 | 219 85 | 09 11 05 | |
| | 41 49 | 36 49 | Lunæ limb. prox. & Aquarii λ | | | 02 28 55 | 59 65 | 02 29 27 | |
| | 43 23 | 38 23 | ——— rep. | | | 02 28 20 | 59 47 | 02 29 00 | |
| | 47 21 | 42 21 | Aquarii ζ & ejusdem λ ——— | | | 09 36 50 | 230 15 | 09 36 51 | |

## *ECLIPSIS LUNÆ,*

*Observata Augusti* 18. p. m. *N. S.*

| h. ′ ″ | h. ′ ″ | |
|---|---|---|
| 13 00 00 | 12 55 00 | Lunæ Diameter 6186 Part. per Mic. = 30′ 51″ |
| 05 00 | 13 00 00 | ——— rep. 6191 = 30 53 |
| 46 30 | 41 30 | Penumbra Notabilis |
| 53 40 | 48 40 | Penumbra Densa. |
| 55 40 | 50 40 | *Initium.* |
| 58 00 | 53 00 | Umbra ad Montem Climacem. |
| 14 03 20 | 58 20 | Sinus Sirbonis incipit. |
| 05 50 | 14 00 50 | Mareotis incipit. |
| 07 30 | 02 30 | Mons Cataractes incipit. |
| 08 16 | 03 16 | Mareotis tota tecta. |
| 10 50 | 05 50 | Sina incipit. |
| 12 56 | 07 56 | Sina tota tecta. |
| 18 00 | 13 00 | Audus. |
| 27 24 | 22 24 | Circinna. |
| 31 00 | 26 00 | Abulfeda Ricciolo. |
| 32 30 | 27 30 | Pentadactilus incipit. |
| 33 32 | 28 32 | Ætnæ Limbus primus. |
| 34 26 | 29 26 | Pentadactilus totus. |
| 35 06 | 30 06 | Ætnæ Medium. |
| 36 00 | 31 00 | Ætna tota tecta. |
| 40 00 | 35 00 | Umbra per medium Porphiriten. |
| 44 50 | 39 50 | Hiera Insula & Ficaria simul ad Umbram. |
| 46 10 | 41 10 | Umbra ad Horminium. |
| 50 10 | 45 10 | Mons Hercules incipit. |
| 51 10 | 46 10 | Mons Hercules intra. |
| 52 10 | 47 10 | Umbra per medium Besbici. |
| 54 00 | 49 00 | Umbra per medium Insulæ Majoris. |
| 55 30 | 50 30 | per Medium Byzantium. |
| 57 40 | 52 40 | per Medium Insulæ Cyaneæ. |
| 15 01 50 | 56 50 | ad Limbum primum Corocondometis. |
| 04 30 | 59 30 | ad Limbum primum Mæotidis. |
| 13 | 15 08 | Macra incipit obscurari: *dub.* |
| 14 00 | 09 00 | Mæotis tota tecta |
| 19 12 | 14 12 | Partes Lucidæ residuæ erant 1092 Part. per Mic. = 5′ 27″ |

*Tunc Lunam densæ Nubes excepere, sub quibus latuit usque ad ejus Occasum. Interea per Telescopia supra Sextantem Observaverat Phases sequentes* T. Fab. *sed non omnes accuratè propter rorem vitra humantem. Has non inserui.*

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNARIS ECLIPSIS. |
|---|---|---|---|
| ♃ Aug. 18 | | | Dubliniæ *in* Hibernia, *Observante D.* Molineuccio. |
| | | 13 21 45 | Initium. |
| | | 36 00 | Tegitur Palus Mæotis. |
| | | 39 30 | Mons Sina. |
| | | 45 00 | Germanicianus. |
| | | 53 30 | Circinna. |
| | | 14 02 00 | Ætna. |
| | | 10 00 | Porphirites. |
| | | 30 00 | Mæotis incipit. |
| | | 40 00 | Mæotis tota tecta. |
| | | | *E quibus Observationibus cum meis collatis, Meridianorum Differentiam Observatorium inter & Dubliniam eruo 29′ 00″ Temporis, vel 7° 15′.* |
| | | | Parisiis Galliæ, *Observante* Joh. Dominico Cassino. |
| | | 13 58 30 | Initium. |
| | | 14 10 00 | Initium Grimaldi. |
| | | 14 59 | Initium Tychonis. |
| | | 38 10 | VI Digiti crescentes. |
| | | 16 01 46 | Totus Grimaldus emerserat. |
| | | 25 40 | VI Digiti decrescentes. |
| | | 17 12 00 | Finis. |
| | | | N. B. *Tota Eclipsis tempore horologium acquisiverat* 50″, *proportionaliter dividenda, & subducenda notatis temporibus.* |
| | | | Avenione *cum* Galleto *nostras* Halleius *observarunt.* |
| | | 14 10 00 | Initium |
| | | 20 12 | Initium Mareotidis. |
| | | 22 40 | Tota Palus tecta |
| | | 25 20 | Tetigit Limbum Sinæ. |
| | | 48 10 | Sex Digiti. |
| | | 49 10 | Aristarchi Initium. |
| | | 52 00 | Aristarchi medium & Picolimini. |
| | | | *Hinc Meridianorum Differentia* Avenionem *inter & Observatorium* Grenovicanum *est* 19′ 24″, *vel* 4° 51′. |
| | | | In recessu sinus Insulæ S. Lawrentii, D. *Thomas Heathcot, Anglo-Staffordiensis* supra Terram Lusitanis *de la Gada* dictam, ab Initio Eclipsis, Tubo pedum novem considerato, Numeravit 140 Vibrationes Perpendiculi, cujus quælibet æquabat unum Scrupulum horarium, tum cepit Altitudinem Procyonis ad Ortum 25° 39′: Postridie Latitudinem, ab Altitudine Meridiana Solis observata determinavit 19° 29′ Australem; unde horam Calculo deduxi 16° 51′ 02″, & subductis 02′ 20″ — pro spatio inter Initium & Altitudinem observatam interlapso ipsum Eclipsis Initium ibi hora ——— 16 48′ 40″<br>Quod Grenovici Observaveram hora ——— 13 50 40<br>Ergo Meridianorum vera Differentia est 02 58 00 vel 44° 30′ quam Chartæ Geographicæ exhibent 52°, scilicet 7° ½ ad minimum justo majorem. |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ ″ · Hora supp. h. ′ ″ · Err. Horol. ′ ″ | | | | |
| ♀ Aug. 19 | 3 30 58 | | 59 51 50 · 3 26 10 · — 4 48 | | | | |
| | 33 15 | Limbi Solis inferioris | 60 10 50 · 28 26 · — 4 49 | | | | |
| | 35 47 | | 60 32 00 · 30 56 · — 4 51 | | | | |
| | 38 06 | | 60 52 00 · 33 18 · — 4 48 | | | | |
| | 40 33 | | 61 12 20 · 35 41 · — 4 52 | | | | |
| | 14 03 31 | 13 58 45 | Lunæ limb. rem. à Markab. – | 20 57 25 | 501 74 | 20 57 20 | |
| | 05 32 | 14 00 46 | ——— rep. | 20 57 15 | 501 71 | 20 57 15 | |
| | 09 34 | 04 48 | Lunæ limb. prox. à Nodo Lini Piscium ——— | 37 22 00 | 894 80 | 37 21 58 | ☽ in ♓ 18° Lat. Aust. 1¼ |
| | 11 11 | 06 25 | ——— rep. | 37 21 50 | 894 64 | 37 21 35 | |
| | 14 00 | 09 14 | Inter Fixas ——— | 45 23 05 | 1086 96 | 45 23 21 | |
| | 18 33 | 13 47 | Lunæ limb. rem. à Markab. | 20 56 25 | 501 39 | 20 56 27 | |
| | 19 48 | 15 02 | ——— rep. | 20 56 25 | 501 40 | 20 56 28 | |
| | | | Dist. à Vert. ° ′ ″ · Hora supp. h ′ ″ · Err. Horol. ′ ″ | | | | |
| | 20 46 40 | | 58 57 10 · 20 41 53 · — 4 47 | | | | |
| | 48 40 | Sol. limbi inferioris | 58 41 30 · 43 54 · — 4 46 | | | | |
| | 50 01 | | 58 30 00 · 45 19 · — 4 42 | | | | |
| | 51 44 | | 58 16 00 · 47 02 · — 4 42 | | | | |
| | 53 33 | | 58 01 20 · 48 51 · — 4 42 | | | | |
| ♃ Sept. 1 | 20 07 49 | | 67 59 00 · 20 06 05 · — 1 44 | | | | |
| | 10 09 | Sol. limbi inferioris | 67 39 20 · 08 25 · — 1 44 | | | | |
| | 12 12 | | 67 21 30 · 10 28 · — 1 44 | | | | |
| | 14 40 | | 67 01 10 · 12 53 · — 1 47 | | | | |
| | 17 01 | | 66 41 10 · 15 14 · — 1 47 | | | | |
| | | | Part. per Mic. ′ ″ | | | | |
| ☿ 7 | 7 40 *circ.* | 7 30 | ☽ⁱˢ Diam. 5967 = 29 46 | | | | |
| | | | ——— rep. 5975 = 29 48 | | | | |
| | 40 37 | 40 11 | Lunæ limb. prox. à lucid. in Collo Serpentis ——— | 25 32 30 | 611 44 | 25 32 25 | |
| | 43 27 | 43 01 | Lunæ limb. prox. à lucid. in Collo ——— rep. | 25 32 50 | 611 66 | 25 33 00 | |
| | 46 57 | 46 31 | Lunæ limb. rem. & ult. in Capite Sagittarii π ——— | 39 03 05 | 935 44 | 39 03 39 | ☽ in ♐ 3° Lat. Bor. 4½ |
| | 48 24 | 47 58 | ——— rep. | 39 02 50 | 935 23 | 39 03 07 | |
| | 52 04 | 51 38 | Lunæ limb. prox. à lucida in Collo Serpentis iter. | 25 34 10 | 612 26 | 25 34 29 | |
| | 54 04 | 53 38 | ——— rep. | 25 34 50 | 612 40 | 25 34 50 | |
| | 58 15 | 57 48 | Lucida in Collo Serpentis à Sagittarii π ——— | 57 23 50 | 1374 64 | 57 23 39 | |
| | | | Part. per Mic. ′ ″ | | | | |
| ♃ 8 | 6 49 00 | 6 49 11 | ☽ⁱˢ Diam. 5977 = 29 49 | | | | |
| | 55 06 | 55 17 | ——— rep. 5967 = 29 46 *Forsan nimis arcta.* | | | | |
| | 7 25 34 | 7 25 45 | Lunæ limb. rem. à Sagittarii π | 27 12 35 | 651 65 | 27 13 19 | |
| | 28 32 | 28 43 | ——— rep. | 27 12 00 | 651 30 | 27 12 27 | |
| | 35 43 | 35 54 | Lunæ limb. rem. à Capite Ophiuchi ——— | 31 48 30 | 761 86 | 31 49 30 | |
| | 38 28 | 38 39 | ——— rep. | 31 48 30 | 761 81 | 31 49 22 | ☽ in ♐ 15° Lat. Bor. 4½ |
| | 43 28 | 43 39 | Lunæ limb. rem. & Sagittarii π ——— rep. | 27 06 25 | 649 12 | 27 06 58 | |
| | 45 15 | 45 26 | ——— iter. | 27 05 55 | 648 94 | 27 06 31 | |
| | 49 45 | 49 56 | Ophiuchi Caput à π Sagittarii | 40 52 00 | 978 79 | 40 52 22 | |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ′ ″ | Hor. suppút. h ′ ″ | Err. Horol. ′ ″ | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cocleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|
| ♃ Sept. 8 | 20 53 31 | | Sol. limbi inferioris | 63 50 50 | 20 53 38 | + 0 07 | | | |
| | 56 06 | | | 63 31 40 | 56 10 | + 0 04 | | | |
| | 58 44 | | | 63 12 00 | 58 48 | + 0 04 | | | |
| | 21 01 33 | | | 62 51 20 | 21 01 35 | + 0 02 | | | |
| | 04 27 | | | 62 30 10 | 04 28 | + 0 01 | | | |
| ☿ 21 | 3 45 03 | | Limbi Solis inferioris | 73 23 40 | 3 48 05 | + 3 02 | | | |
| | 47 01 | | | 73 40 30 | 50 03 | + 3 07 | | | |
| | 48 18 | | | 73 50 50 | 51 24 | + 3 06 | | | |
| | 49 37 | | | 74 02 00 | 52 44 | + 3 07 | | | |
| | 50 52 | | | 74 12 10 | 53 59 | + 3 07 | | | |
| | | | *Nocte sequente observatus Lunæ Appulsus ad Palilicium ut sequitur.* | | | | Part. per Micr. | ′ ″ | |
| | 9 58 16 | 10 01 26 | Stella à limbo proximo —— | | | | 5835 | =29 06 | |
| | 10 03 20 | 06 30 | Lunæ Diameter —— | | | | 6521 | =32 32 | |
| | 06 54 | 10 04 | —— rep. | | | | 6527 | =32 34 | |
| | | | *Tunc Declinationis parallelus incidebat per Insulam Cyaneam, Limbum Besbici Austrinum, eundem Ætnæ, & intra Boreum Limbum Mareotidis.* | | | | | | |
| | 17 24 | 20 34 | Stella à limbo proximo —— | | | | 4210 | =21 00 | |
| | 25 26 | 28 36 | —— rep. | | | | 3442 | =17 10 | |
| *Vide Fig. 131.* | 37 26 | 40 36 | —— iter. | | | | 2951 | =14 43 | |
| | 40 34 | 43 44 | —— iter. | | | | 2800 | =13 58 | |
| | 44 44 | 47 54 | —— iter. | | | | 2621 | =13 04½ | |
| | 48 00 | 51 10 | —— iter. | | | | 2550 | =12 43 | |
| | 52 50 | 56 00 | —— denuò | | | | 2427 | =12 06 | |
| | | | *Tunc vel paulò citiùs mihi erat in recta perpendiculari per limbum Lunæ antecedentem, Amanuensi paulò seriùs.* | | | | | | |
| | 11 00 30 | 11 03 40 | Stella à limbo iter. —— | | | | 2450 | =12 13 | |
| | 05 30 | 08 40 | Lunæ Diameter —— | | | | 6545 | =32 39 | |
| | | | | *Dist. à Vert.* ° ′ ″ | *Hor. Supput.* h. ′ ″ | *Err. Hor.* ′ ″ | | | |
| ♂ 27 | 8 00 08 | | Lucidæ Arietis | 62 02 30 | | | | | |
| | 02 31 | | | 61 41 30 | 8 06 50 | + 4 19 | | | |
| | 07 00 | | | 60 59 20 | 11 20 | + 4 20 | | | |
| | 09 01 | | | 60 40 40 | 13 20 | + 4 19 | | | |
| | 11 02 | | | 60 21 40 | 15 22 | + 4 20 | | | |
| ♂ Oct. 11 | 7 11 30 | 7 17 46 | Lunæ limb. rem. ab Ore Pegasi | | | | 22 05 55 | 529 06 | 22 05 51 |
| | 13 36 | 19 52 | —— rep. | | | | 22 05 45 | 529 04 | 22 05 48 |
| | 17 37 | 23 53 | Lunæ limb. prox. & sequens Contiguar. in Cornu Boreo Capricorni —— | | | | 23 40 25 | 566 97 | 23 40 58 |
| *☽ in ♒ 21° 0; Lat. Bor. 1.* | 21 09 | 27 25 | —— rep. | | | | 23 41 35 | 567 50 | 23 42 18 |
| | 26 16 | 32 32 | Lunæ limb. rem. ab Ore Pegasi —— | | | | 22 04 45 | 528 59 | 22 04 39 |
| | 29 04 | 35 20 | —— rep. | | | | 22 04 35 | 528 53 | 22 04 30 |
| | 35 34 | 41 50 | Os Pegasi à sequent. contiguar. in Cornu Boreo ♑i | | | | 30 58 30 | 741 79 | 30 59 16 |

| ANNO CHRISTI 1681. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ′ ″ | Hor. supp. h ′ ″ | Err. Horol. ′ ″ | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|---|---|---|
| ♂ Oct. 11 | 7 44 36 | | | 56 03 10 | | | | | | |
| | 47 08 | Lucidæ Arietis | | 55 40 00 | 7 53 24 | + 6 16 | | | | |
| | 49 08 | | | 55 21 20 | 55 25 | + 6 17 | | | | |
| | 51 14 | | | 55 01 30 | 57 33 | + 6 19 | | | | |
| | 53 53 | | | 54 37 30 | 8 00 09 | + 6 16 | | | | |
| ♄ 15 | 9 06 26 | 9 12 46 | Lunæ limb. rem. à Capite Andromedæ | | | | 30 17 55 | 725 33 | 30 17 54 | |
| | 08 16 | 14 36 | rep. | | | | 30 18 00 | 725 36 | 30 17 59 | |
| | 12 15 | 18 35 | Lunæ limb. rem. à lucida Plejadum | | | | 40 26 15 | 968 53 | 40 26 39 | |
| | 14 05 | 20 25 | rep. | | | | 40 25 25 | 968 16 | 40 25 44 | ☽ in ♈ 16° Lat. Aust. 3½. |
| | 18 28 | 24 48 | Lunæ limb. rem. à Capite Andromedæ | | | | 30 18 40 | 725 63 | 30 18 40 | |
| | 20 16 | 26 36 | rep. | | | | 30 18 45 | 725 67 | 30 18 46 | |
| | 25 18 | 31 38 | Lucida Plejadum à Capite Andromedæ | | | | 48 48 00 | 1168 64 | 48 48 09 | |
| | 49 50 | | | 61 50 00 | 9 56 10 | + 6 20 | | | | |
| | 52 22 | Palilicii | | 61 26 50 | 58 41 | + 6 19 | | | | |
| | 53 53 | | | 61 12 50 | 10 00 13 | + 6 20 | | | | |
| ☉ 16 | 12 08 22 | | | 59 17 40 | 12 14 38 | + 6 16 | | | | |
| | 10 12 | Pollucis | | 59 00 40 | 16 28 | + 6 16 | | | | |
| | 11 59 | | | 58 44 10 | 18 15 | + 6 16 | | | | |
| | 13 10 02 | 13 16 18 | Lunæ limb. rem. à Palilicio | | | | 33 21 00 | 798 50 | 33 21 07 | |
| | 12 15 | 18 31 | rep. | | | | 33 19 30 | 797 97 | 33 19 48 | |
| | 13 39 | 19 55 | Lunæ limb. prox. à Palilicio | | | | 32 46 00 | 784 59 | 32 46 21 | |
| | 18 21 | 24 37 | Lunæ limb. rem. à Secunda Arietis | | | | 13 36 50 | 326 06 | 13 36 54 | |
| | 20 14 | 26 30 | rep. | | | | 13 36 50 | 326 08 | 13 36 57 | ☽ in ♉ 2°½ Lat. Aust. 4½. |
| | 21 48 | 28 04 | Lunæ limb. prox. ab eadem | | | | 13 04 10 | 312 99 | 13 04 12 | |
| | 25 44 | 32 00 | Lunæ limb. rem. à Palilicio | | | | 33 13 20 | 795 50 | 33 13 37 | |
| | 28 14 | 34 30 | rep. | | | | 33 12 10 | 795 04 | 33 12 28 | |
| | 29 52 | 36 08 | Lunæ limb. prox. à Palilicio | | | | 32 38 35 | 781 68 | 32 39 03 | |
| ♀ 21 | 6 43 53 | | | 59 30 50 | 6 50 10 | + 6 17 | | | | |
| | 45 56 | | | 59 11 40 | 52 14 | + 6 18 | | | | |
| | 48 08 | Lucidæ Arietis | | 58 51 10 | 54 25 | + 6 17 | | | | |
| | 50 16 | | | 58 31 20 | 56 33 | + 6 17 | | | | |
| | 52 58 | | | 58 06 10 | 59 15 | + 6 17 | | | | |
| ☿ Nov. 18 | 6 02 31 | | | 49 19 10 | 6 01 31 | − 1 00 | | | | |
| | 04 32 | Lucidæ Arietis | | 49 01 50 | 03 34 | − 0 58 | | | | |
| | 06 41 | | | 48 41 40 | 05 42 | − 0 59 | | | | |
| | 07 58 | | | 48 30 50 | 06 56 | − 1 02 | | | | |
| ☽ 21 vel ♂ 22 mane | 17 30 16 | 17 27 22 | Lunæ limb. rem. à Geminorum λ | | | | 56 46 55 | 1360 15 | 56 47 27 | |
| | 32 42 | 29 48 | rep. | | | | 56 47 45 | 1360 50 | 56 48 20 | |

| | Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|
| ☽ in ♍ 10°¾ Lat. Aust. 0¼ | ☽ Nov. 21 vel | 17 39 06 | 17 36 12 | Lunæ limb. rem. à lucida in lumbis Leonis δ | 15 23 15 | 368 81 | 15 23 52 |
| | ♂ 22 mane | 40 52 | 37 58 | ——— rep. | 15 23 25 | 368 89 | 15 24 04 |
| | | 45 05 | 42 11 | Lunæ limb. rem. à Geminorum λ | 56 52 50 | 1362 55 | 56 53 27 |
| | | 46 34 | 43 40 | ——— rep. | 56 53 35 | 1362 85 | 56 54 12 |
| | | 49 26 | 46 32 | Lucida in Lumbis à λ in Poplite Pollucis | 55 45 45 | 1335 83 | 55 46 40 |
| | | | | Dist. à Vert. ° ' " \| Hor. supput. h. ' " \| Err. Horol. ' " | | | |
| | ☽ 28 | 7 54 31 | Palilicii | 53 42 10 \| 7 48 06 \| — 6 25 | | | |
| | | 56 56 | | 53 21 40 \| 50 33 \| — 6 23 | | | |
| | | 59 16 | | 53 01 40 \| 52 55 \| — 6 21 | | | |
| | | 8 01 31 | | 52 42 20 \| 55 04 \| — 6 27 | | | |
| | ☽ Dec. 12 | 8 59 50 | 8 47 00 | Lunæ limb. prox. à pede Persei ζ | 16 48 35 | 402 69 | 16 48 42 |
| | | 9 03 10 | 50 20 | ——— rep. | 16 48 45 | 402 71 | 16 48 45 |
| | | 08 32 | 55 42 | Lunæ limb. rem. à Palilicio | 04 51 50 | 116 65 | 04 52 28 |
| ☽ in ♊ 0°½ Lat. Aust. 5¼ | | 11 34 | 58 44 | ——— rep. | 04 50 20 | 115 99 | 04 50 50 |
| | | 14 32 | 9 01 44 | *Luna in Nonagesimo* iter. | 04 49 00 | 115 41 | 04 49 22 |
| | | 20 10 | 07 20 | Lunæ limb. prox. à pede Persei ζ | 16 49 05 | 402 84 | 16 49 05 |
| | | 22 06 | 09 16 | ——— rep. | 16 49 00 | 402 82 | 16 49 02 |
| | | | | *Occultatio Primæ Hyadum.* | | | |
| | | 40 28 | 27 38 | Horminius eandem habuit Declinationem cum Fixa. | | | |
| | | 54 58 | 41 48 | Fixa tegebatur in recta cum Climace, & Horminio. | | | |
| | | 11 06 | 10 53 | Emerserat, aberatque ab Australi Limbo Longitudine Mareotidis. | | | |
| | Anno Christi MDCLXXXII. | | | | | | |
| | | | | Dist. à Vert. ° ' " \| Hor. supput. h. ' " \| Err. Horol. ' " | | | |
| ☽ in ♓ 16°½ Lat. Aust. 1½ | ♂ Jan. 3 | 8 06 54 | Pollucis | 49 18 40 \| 7 42 30 \| —24 24 | | | |
| | | 08 48 | | 49 01 00 \| 44 24 \| —24 24 | | | |
| | | 10 51 | | 48 41 50 \| 46 27 \| —24 24 | | | |
| ☽ in ♊ 24° Lat. Aust. 4½ | ♂ 10 | 9 16 42 | 8 49 52 | Lunæ limb. prox. à Palilicio *Non valde accuratæ propter Ventum vehementissimum & Nubes.* | 18 19 45 | 439 27 | 18 20 21 |
| | | | | Dist. à Vert. ° ' " \| Hor. supput. h. ' " \| Err. Horol. ' " | | | |
| ☽ in ♍ 6°½ Lat. Bor. | ☉ 15 | 6 24 41 | Pollucis | 58 00 30 \| 5 56 04 \| —28 37 | | | |
| | | 26 59 | | 57 39 10 \| 58 26 \| —28 33 | | | |

| Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitud. Correcta h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ♂ Jan. 17 | | | *Purgatis Horologiorum Rotulis Laminaris indices disposui ut tempus æquale ostenderet, & alterius ad eadem momenta. Postridie pro ulteriore examinatione, distantiæ à Vertice observatæ,* | | | | |
| | | | Dist. à Vert. ° ' "; Horr. supput. h ' "; Err. Horol. ' " | | | | |
| ☿ 18 | 6 19 13 | | 54 41 10; 6 05 02; —14 11 | | | | ☽ in ♎ 18° ½ Lat. Bor. 3¾ |
| | 21 27 | Pollucis | 54 20 40; 07 14; —14 13 | | | | |
| | 23 34 | | 54 00 20; 09 25; —14 09 | | | | |
| | 25 36 | | 53 41 30; 11 26; —14 10 | | | | |
| ♀ Feb. 3 | 6 03 15 | | 47 47 50; 5 45 27; —17 48 | | | | |
| | 05 02 | | 47 31 20; 47 14; —17 48 | | | | |
| | 07 13 | Pollucis | 47 10 30; 49 28; —17 45 | | | | |
| | 09 19 | | 46 51 30; 51 31; —17 48 | | | | |
| | 44 17 | 6 26 29 | Lunæ limb. prox. à lucida Arietis —— | 15 09 00 | 362 86 | 15 08 59 | ☽ in ♉ 5 [illegible] Lat. Aust. 5½ |
| | 45 47 | 27 59 | —— rep. | 15 09 05 | 362 95 | 15 09 12 | |
| | 50 35 | 32 47 | Lunæ limb. rem. à Palilicio — | 29 50 30 | 714 68 | 29 51 10 | |
| | 52 16 | 34 28 | —— rep. | 29 49 50 | 714 52 | 29 50 46 | |
| | 56 35 | 38 47 | Lunæ limb. prox. à lucida Arietis —— | 15 09 40 | 363 14 | 15 09 40 | |
| | 58 23 | 40 35 | —— rep. | 15 09 45 | 363 20 | 15 09 50 | |
| | 7 04 39 | 6 46 51 | Lucida Arietis à Palilicio — | 35 32 30 | 851 20 | 35 32 55 | |
| ♄ 4 | 6 35 03 | 6 16 58 | Lunæ limb. remot. à Palilicio —— | 16 26 45 | 394 09 | 16 27 09 | |
| | 37 23 | 19 18 | —— rep. | 16 25 45 | 393 69 | 16 26 09 | |
| | 42 01 | 23 56 | Lunæ limb. prox. ab Alamech Andromedæ —— | 34 25 25 | 824 01 | 34 24 55 | ☽ in ♉ 19° [illegible] Lat. Aust. 5[illegible] |
| | 43 44 | 25 39 | —— rep. | 34 25 25 | 824 07 | 34 25 05 | |
| | 47 12 | 29 07 | Lunæ limb. rem. à Palilicio — | 16 21 20 | 392 02 | 16 21 58 | |
| | 48 44 | 30 39 | —— rep. | 16 20 40 | 391 75 | 16 21 18 | |
| | 52 00 | 33 55 | Alamech Andromedæ à Palilicio —— | 41 24 35 | 991 73 | 41 24 50 | |
| | | | *Lunæ transitus infra Palilicium.* | Part. per Mic. | ' " | | |
| ☉ 5 | 7 37 00 | 7 18 40 | Lunæ Diameter —— | 6540 | = 32 37 | | ☽ in ♊ 2° [illegible] Lat. Aust. 5½ |
| | 10 48 00 | 10 29 40 | Lunæ Cuspis Boreus à Fixa — | 4860 | = 24 15 | | |
| | 52 40 | 34 20 | Lunæ Diameter —— | 6503 | = 32 26 | | |
| | 55 10 | 36 50 | Stella à dicta Cuspide —— | 4250 | = 21 12 | | |
| | 11 00 16 | 41 58 | —— rep. | 3647 | = 18 12 | | |
| | 10 40 | 52 20 | —— iter. rep. | 2667 | = 13 17 | | |
| | 29 24 | 11 11 04 | —— rursum. | 1347 | = 06 43 | | |
| | 32 08 | 13 48 | —— denuo. | 1247 | = 06 13 | | |
| | 35 00 | 16 40 | In recta per Cuspides a limbo æstimante *Fabro* —— | 1256 | = 06 16 | | |
| | 37 16 | 18 56 | Stella à limbo —— | 1327 | = 06 37 | | |
| | 44 06 | 25 46 | —— rep. | 1511 | = 07 32 | | |
| | 46 48 | 28 28 | Stella à Cuspide —— | 1880 | = 09 23 | | |
| | 48 26 | 30 06 | —— rep. | 2026 | = 10 06 | | |
| | 50 00 | 31 40 | Stella à limbo proximo —— | 1655 | = 08 15 | | |

| | Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. Dist. à Vert. ° ′ ″ | Horr. supput. h ′ ″ | Err. Horol. ′ ″ | Distantiæ per lineas Diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|
| | ♀ Feb. 10 | 3 41 41 | | 76 01 10 | 3 22 01 | —19 40 | | | |
| | | 44 34 | Limbi | 76 21 20 | 24 46 | —19 48 | | | |
| | | 47 12 | Solis in- | 76 40 50 | 27 24 | —19 48 | | | |
| ☽ in ♌ 14° Lat. Aust. 1⅔ | | 50 04 | ferioris | 77 02 10 | 30 16 | —19 48 | | | |
| | ♄ 11 | 3 36 20 | | 75 01 30 | 3 16 30 | —19 50 | | | |
| | | 39 04 | Limbi | 75 21 20 | 19 14 | —19 50 | | | |
| | | 41 52 | Solis in- | 75 41 20 | 21 59 | —19 53 | | | |
| | | 44 24 | ferioris | 76 00 00 | 24 30 | —19 54 | | | |
| | | 47 05 | | 76 19 30 | 27 09 | —19 56 | | | |
| | | 7 42 55 | | 61 51 00 | 7 22 58 | —19 57 | | | |
| | | 45 07 | | 61 31 00 | 25 11 | —19 56 | | | |
| | | 47 17 | Reguli | 61 11 10 | 27 23 | —19 54 | | | |
| | | 49 35 | | 60 50 50 | 29 38 | —19 57 | | | |
| | | 51 47 | | 60 31 00 | 31 51 | —19 56 | | | |

## ECLIPSIS LUNÆ,

| | Tempora per Horologium | Tempora correcta | |
|---|---|---|---|
| | | | Part. per Mic. ′ ″ |
| ☽ in ♍ 3°½ Lat. Bor. 0 | 8 21 | 8 01 00 | Lunæ Diameter 6702 = 33 25 |
| | 9 08 30 | 48 38 | Fumus in inferiore parte nudis Oculis. |
| | 24 00 | 9 04 08 | Umbrago. |
| | 31 36 | 11 44 | Densa Penumbra. |
| | 32 24 | 12 32 | Initium. |
| | 33 54 | 14 02 | Medium Paludis Mareotidis. |
| | 38 02 | 18 10 | Sexta pars Peripheriæ obscurata. |
| | 40 02 | 20 10 | Circinna intra Umbram. |
| | 41 24 | 21 32 | Limbus primus Montis Cataractes, vel Gassendi *Ricciolo*. |
| | 47 50 | 27 58 | Oculus Draconis. |
| | 48 14 | 28 32 | Tegebat limbos primos Cretæ & Ætnæ. |
| | 49 40 | 29 48 | Ætna totus tectus, Initium Insulæ Hieræ. |
| | 53 38 | 33 46 | Initium Corsicæ. |
| | 56 30 | 36 38 | Sina Mons incipit. |
| | 57 24 | 37 32 | Sinæ Medium. |
| | 57 56 | 38 04 | Totus Sina tectus. |
| | 58 40 | 38 48 | Centrum Lunæ sive Digiti VI. |
| | 59 50 | 39 58 | Incipit Lacus Niger Major. |
| | 10 03 34 | 43 42 | per Medium Besbici. |
| | 06 50 | 46 58 | Incipit Byzantium. |
| | 07 14 | 47 22 | Horminius. |
| | 07 42 | 47 50 | Carpathes. |
| | 08 22 | 48 30 | Serrorum Mons. |
| | 10 16 | 50 24 | Apollonia, *Ricciolo* Plinius. |
| | 12 36 | 52 44 | Macra. |
| | 14 18 | 54 26 | Mons Hercules. |
| | 19 02 | 59 10 | Corocondometis, *Ricciolo* Palus Somni. |
| | 20 30 | 10 00 38 | Tota Palus Somni tecta. |
| | 22 12 | 02 20 | Incipit Mæotis. |
| | 25 06 | 05 14 | Umbra per Medium Insulæ Majoris. |
| | 26 46 | 06 54 | Tota ferè Mæotis tecta. |
| | 27 20 | 07 28 | Sexta pars Peripheriæ iterum. |
| | 30 06 | 10 14 | Immersio. |

| Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | *Lunaris Eclipsis.* | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. | Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| ♄ Feb. 11 | 10 39 07 | 10 19 15 | Lunæ limb. prox. à Regulo – | 08 13 30 | 196 | 92 | 08 13 39 |
| | 11 57 48 | 11 37 56 | Lunæ limb. rem. à Regulo — | 09 23 50 | 224 | 93 | 09 23 48 |
| | 12 01 40 | 41 48 | ——— iter. | 09 25 35 | 225 | 81 | 09 26 00 |
| | 07 30 | 47 38 | Emersio. | | | | |
| | 09 54 | 50 02 | *Sexta pars Peripheriæ* illumiuata, cum limbo primo Mareotidis. | | | | |
| | 10 34 | 50 42 | Medium Mareotidis. | | | | |
| | 10 58 | 51 06 | Tota Mareotis illuminata. | | | | |
| | 12 52 | 53 00 | Umbra per medium Porphiritidis. | | | | |
| | 13 26 | 53 34 | Totus Porphirites. | | | | |
| | 18 10 | 58 18 | Circinna tota. | | | | |
| | 20 52 | 12 01 00 | Cataractes Sirbonis totus, vel Gassendus. | | | | |
| | 23 12 | 03 20 | Ætna incipit. | | | | |
| | 25 10 | 05 18 | Ætna totus retectus. | | | | |
| | 27 26 | 07 34 | Creta. | | | | |
| | 33 30 | 13 38 | Sina incipit. | | | | |
| | 34 20 | 14 28 | Sinæ medium. | | | | |
| | 35 26 | 15 34 | Sina totus. | | | | |
| | 37 26 | 17 34 | Medium Besbici. | | | | |
| | 38 20 | 18 28 | Centrum Lunæ sive VI digiti retecti. | | | | |
| | 40 42 | 20 50 | Byzantium extra. | | | | |
| | 44 16 | 24 24 | Insula Apollonia tota. | | | | |
| | 51 30 | 31 38 | Medium Corocondometidis. | | | | |
| | 53 10 | 33 18 | Mæotis incipit illustrari. | | | | |
| | 58 54 | 39 06 | *Sexta pars Peripheriæ* adhuc deficit. | | | | |
| | 13 02 10 | 42 18 | Insula Major Caspiæ tota. | | | | |
| | 05 02 | 45 10 | Dubius Exitus. | | | | |
| | 05 30 | 45 38 | Finis Certus. | | | | |
| | | | *Ante Initium Eclipsis observaveram cum Domino* Halleio *distanstantiam Limbi Proximi Mareotidis à limbo Lunæ proximo* 145 = 0′ 43½″, *& à Limbo remoto Lunæ, Maculæ ejusdem limbi* 6575 = 32′ 48″. *Deindè per Telescopia supra Sextantem observavit D.* Halleius *cum* Fabro. | | | | |
| | 9 13 00 | 8 53 07 | Lunæ limb. remot. à Regulo | 08 05 20 | 193 | 53 | 08 05 10 |
| | 15 00 | 55 07 | ——— rep. | 08 06 20 | 193 | 97 | 08 06 16 |
| | 22 26 | 9 02 34 | Lunæ limb. rem. à Lucid. in Lumbis ——— | 14 58 15 | 358 | 74 | 14 58 40 |
| | 24 10 | 04 18 | ——— rep. | 14 57 55 | 358 | 63 | 14 58 24 |
| | 28 34 | 08 42 | Lunæ limb. remot. à Regulo | 08 12 50 | 196 | 57 | 08 12 46 |
| | 32 56 | 13 04 | Initium forsan. | | | | |
| | 34 31 | 14 39 | Tota Mareotis tecta. | | | | |
| | 40 33 | 20 41 | Porphirites medius. | | | | |
| | 41 01 | 21 09 | Umbra stringit Sirbonem. | | | | |
| | 48 36 | 28 44 | Initium Ætnæ. | | | | |
| | 50 08 | 30 16 | Ætna totus. | | | | |
| | 50 36 | 30 44 | Insula Hiera. | | | | |
| | 54 40 | 34 48 | Medium Corsicæ. | | | | |
| | 57 02 | 37 10 | Umbra tetigit Sinam. | | | | |
| | 58 02 | 38 10 | Totus Sina tectus. | | | | |
| | 10 00 28 | 40 36 | Tangit Lacum Nigrum Majorem. | | | | |
| | 01 32 | 41 40 | Totus immergebatur Lacus. | | | | |
| | 03 40 | 43 48 | Initium Besbici. | | | | |
| | 04 28 | 44 36 | Totus Besbicus & stringit Pontum Euxinum. | | | | |
| | 08 39 | 48 47 | Byzantium. | | | | |
| | 08 43 | 48 51 | Per Sinum Peronticum. | | | | |
| | 08 46 | 48 54 | Horminius. | | | | |
| | 11 13 | 51 21 | Insula Apollonia. | | | | |
| | 13 25 | 53 33 | Insula Macra incipit. | | | | |
| | 14 45 | 54 53 | Macra tota. | | | | |

| Anno Christi 1682. Stil. Vet. | Tempora per Horologium Oscillatorium h. | ′ | ″ | Tempora ex Altitud. Correcta. h. | ′ | ″ | *LUNARIS ECLIPSIS.* |
|---|---|---|---|---|---|---|---|
| ♄Feb. 11 | 10 | 15 | 25 | 9 | 55 | 33 | Mons Hercules. |
| | | 19 | 45 | | 59 | 53 | Per Medium Lacum Boreum superiorem. |
| | | 21 | 09 | 10 | 01 | 17 | Umbra per montem Coracem. |
| | | 22 | 30 | | 02 | 38 | Stringit Mæotida. |
| | | 23 | 45 | | 03 | 53 | Per Lacum Hyperboreum inferiorem. |
| | | 25 | 03 | | 05 | 11 | Stringit Insulam Majorem Maris Caspii. |
| | | 26 | 03 | | 06 | 11 | Tota Insula tecta est. |
| | | 27 | 52 | | 08 | 00 | Tota Palus Mæotis tecta. |
| | | 30 | 03 | | 10 | 11 | Immersio. |
| | 12 | 07 | 01 | 11 | 47 | 09 | Emersio. |
| | | 09 | 59 | | 50 | 07 | Mareotis incipit Emergere. |
| | | 10 | 50 | | 50 | 58 | Tota Mareotis retecta. |
| | | 12 | 46 | | 52 | 54 | Porphirites retectus. |
| | | 18 | 51 | | 58 | 59 | Stringit Sinum Sirbonis. |
| | | 22 | 34 | 12 | 02 | 42 | Incipit Lacus Niger Major. |
| | | 23 | 06 | | 03 | 14 | Incipit Hiera. |
| | | 23 | 43 | | 03 | 51 | Totus Lacus Niger Major extra. |
| | | 24 | 11 | | 04 | 19 | Medius Ætna. |
| | | 24 | 56 | | 05 | 04 | Ætna totus. |
| | | 34 | 04 | | 14 | 12 | per medium Sinæ. |
| | | 34 | 47 | | 14 | 55 | Sina totus. |
| | | 37 | 24 | | 17 | 32 | Besbicus totus. |
| | | 38 | 57 | | 19 | 05 | per Medium Lacum Hyperboreum. |
| | | 40 | 17 | | 20 | 25 | Totum Byzantium. |
| | | 42 | 28 | | 22 | 36 | Macra tota *dubia*. |
| | | 44 | 08 | | 24 | 16 | Insula Apollonia & Horminius. |
| | | 45 | 58 | | 26 | 06 | Lacus Hyperboreus inferior. |
| | | 50 | 48 | | 30 | 56 | Mons Hercules. |
| | | 52 | 29 | | 32 | 37 | Mons Corax. |
| | | 57 | 49 | | 37 | 57 | Tota Palus. |
| | 13 | 01 | 14 | | 41 | 22 | Media Insulæ Majoris Caspii. |
| | | 04 | 27 | 12 | 44 | 35 | Finis. |
| | | 11 | 52 | | 52 | 00 | Lunæ limb. rem. à Regulo — ° 09 ′ 58 ″ 20 · Revol. 238 Cent. 87 · ° 09 ′ 58 ″ 40 |
| | | 15 | 02 | | 55 | 10 | ——— rep. 10 00 10 · 239 55 · 10 00 24 |
| | | | | | | | *Mecum in Camera superiore Amico quodam ingenuo, sed hisce Phænomenis non assueto notante.* |
| | 9 | 33 | 22 | 9 | 13 | 30 | Initium nudis Oculis. |
| | | 34 | 40 | | 14 | 48 | Tota Mareotis tecta. |
| | | 42 | 42 | | 22 | 50 | Ætna cœpit obscurari. |
| | | 57 | 07 | | 37 | 15 | Sina incipit. |
| | | 57 | 43 | | 37 | 51 | Sina totus. |
| | 10 | 00 | 00 | | 40 | 08 | Umbra transibat per medium Lacûs Nigri Majoris. |
| | | 07 | 42 | | 47 | 50 | Per Byzantium. |
| | | 10 | 02 | | 50 | 10 | Per Insulam Apolloniam. |
| | | 21 | 47 | 10 | 01 | 55 | Mæotis incipiebat. |
| | | 27 | 19 | | 07 | 27 | Mæotis tota tecta. |
| | | 30 | 12 | | 10 | 20 | Immersio. |
| | 12 | 07 | 20 | 11 | 47 | 30 | Emersio. |
| | | 33 | 50 | 12 | 13 | 58 | Sinæ limbus primus emergebat |
| | | 35 | 25 | | 15 | 33 | Sinæ limbus ultimus. |
| | | 55 | 50 | | 35 | 58 | Mæotis tota. |
| | 13 | 05 | 00 | 12 | 45 | 08 | Finis. |

| Anno Christi 1681. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h. ′ ″ | *Tempora ex Altitud. Correcta.* h. ′ ″ | *LUNARIS ECLIPSIS.* |
|---|---|---|---|
| | | | *Sequente mane rursus examinavi horologium per Distantias sequentes.* |
| | | | *Dist. à Vert.* ° ′ ″ — *Hora supp.* h. ′ ″ — *Err. Horol.* ′ ″ |
| ♄ Feb. 11 | 21 05 59 | Sol. limbi inferioris | 74 29 30 — 20 46 08 — —19 51 |
| *vel* | 08 32 | | 74 11 20 — 48 39 — —19 53 |
| ☉ 12 | 11 24 | | 73 50 40 — 51 35 — —19 49 |
| *mane* | 14 22 | | 73 29 50 — 54 34 — —19 48 |
| | | | Londino *in Vico* Basingensi *Observante Domino* Edvardo Haynesio. |
| | | 9 06 45 | Penumbra. |
| | | 08 48 | Penumbra densissima. |
| | | 12 18 | Initium forte citiùs. |
| | | 13 48 | Palus Mareotis tecta. |
| | | 28 19 | Umbra tetigit Ætnam. |
| | | 30 12 | Ætna tectus. |
| | | 36 48 | Incipit Sinai. |
| | | 38 20 | Sinai tectus. |
| | | 40 48 | Umbra per Medium Lacûs Nigri Majoris. |
| | | 44 13 | per Medium Besbici. |
| | | 48 33 | per Medium Byzantii. |
| | | 10 05 48 | Palus Mæotis tecta. |
| | | 09 48 | Immersio. |
| | | 11 46 18 | Nondum Emergebat. |
| | | 46 48 | Dubia Emersio. |
| | | 47 48 | Emersio certé. |
| | | 50 48 | Umbra per Medium Paludis Mareotidis. |
| | | 12 03 48 | per Medium Lacus Nigri Majoris. |
| | | 05 45 | Ætna illuminata. |
| | | 13 43 | Sinai incipit illuminari. |
| | | 17 48 | Umbra per Medium Besbici. |
| | | 20 18 | per Medium Byzantii. |
| | | 31 18 | per Montem Herculis. |
| | | 32 18 | Incipit Palus Mæotis. |
| | | 38 03 | Mæotis tota illuminata. |
| | | 42 18 | Umbra per Medium Insulæ Majoris. |
| | | 44 18 | Non finita Eclipsis. |
| | | 44 48 | Finis dubius. |
| | | 45 18 | Finis certé. |

| Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ ″ / Hora supp. h. ′ ″ / Err. Horol. ′ ″ | | | |
| ☿ Mar. 1 vel ♃ 2 mane | 21 35 34 | Limbi Solis inferioris | 64 29 50 / 21 20 04 / —15 30 | | | |
| | 38 30 | | 64 10 30 / 23 00 / —15 30 | | | |
| | 41 18 | | 63 51 30 / 25 54 / —15 24 | | | |
| ♄ 4 | 8 37 47 | 8 22 47 | Lunæ limb. remot. à Palilicio | 05 08 30 | 123 21 | 05 08 57 |
| | 40 20 | 25 20 | Palilicium à prima Hyadum. | 03 58 50 | 095 49 | 03 59 22 |
| ☽ in ♉ 29° ¾ Lat. Aust. 5½ | | | | Part. per Mic. | ′ ″ | |
| | 9 21 00 | 9 06 00 | Lunæ Diameter ——— | 6413 | = 31 58 | |
| | 30 40 | 15 40 | ——— accur. rep. | 6429 | = 32 04 | |
| | | | *Observata deinde Appulsus Lunæ ad primam Hyadum.* | | | |
| | 33 30 | 18 30 | Lunæ Cuspis Bor. à Stella — | 5676 | = 28 19 | |
| | 36 16 | 21 16 | Lunæ limb. prox. à Stella — | 1523 | = 07 36 | |
| | 40 46 | 25 46 | Lunæ Cuspis Bor. ——— rep. | 4982 | = 24 51 | |
| | 46 46 | 31 46 | ——— iter. | 4505 | = 22 28 | |
| | 51 18 | 36 18 | Immersio à Cuspide ——— | 3915 | = 19 32 | |
| | 10 46 58 | 10 31 58 | Emergebat è Regione Mæotidis quarta pars Longitudinis à Boreo termino Austrum versus. | | | |
| | 48 06 | 33 06 | Stella à Cuspide Borea ——— | 3738 | = 18 39 | |
| | | | *Aberat tunc à Limbo Jovis ferè Diametrum.* | | | |
| | 50 18 | 35 18 | Stella à Cuspide Borea ——— | 3981 | = 19 52 | |
| | 51 54 | 36 54 | Stella à limbo Lucido ——— | 513 | = 02 34 | |
| | 53 06 | 38 06 | ——— rep. | 666 | = 03 19 | |
| | 54 34 | 39 34 | ——— iter. | 819 | = 04 05 | |
| | 56 30 | 41 30 | Stella à Cuspide Borea ——— | 4599 | = 22 56 | |
| | 58 22 | 43 22 | ——— rep. | 4830 | = 24 06 | |
| | 11 00 18 | 45 18 | Stella à limbo proximo ——— | 1485 | = 07 25 | |
| | 01 23 | 46 23 | ——— rep. | 1602 | = 07 59 | |
| | | | Dist. à Vert. ° ′ ″ / Hora supp. h ′ ″ / Err. Horol. ′ ″ | | | |
| | 06 19 | Arcturi | 50 34 00 / 10 51 20½ / —14 59 | | | |
| | 08 05 | | 50 18 20 / 53 06 / —14 59 | | | |
| | 10 08 | | 50 00 00 / 55 09 / —14 59 | | | |
| | 12 16 | | 49 41 20 / 57 16 / —15 00 | | | |
| | 21 15 27 | Sol. limbi inferioris | 65 41 50 / 21 00 44 / —14 43 | | | |
| | 18 18 | | 65 21 10 / 03 36 / —14 42 | | | |
| | 21 00 | | 65 02 00 / 06 17 / —14 43 | | | |
| ☽ 6 | 7 55 31 | 7 41 15 | Lunæ limb. rem. à Polluce — | 23 59 45 | 574 73 | 24 00 25 |
| | 58 13 | 43 57 | ——— rep. | 23 58 20 | 574 20 | 23 59 05 |
| | 8 03 07 | 48 51 | Lunæ limb. prox à Cornu Tauri Boreo ——— | 14 27 20 | 346 20 | 14 27 18 |
| | 05 18 | 51 02 | ——— rep. | 14 28 00 | 346 48 | 14 28 00 |
| ☽ in ♊ 28° ½ Lat. Aust. 5¼ | 09 31 | 55 15 | Lunæ limb. rem. à Polluce — | 23 54 10 | 572 41 | 23 12 36 |
| | 11 13 | 56 57 | ——— rep. | 23 53 30 | 572 15 | 23 53 57 |
| | 15 06 | 8 00 50 | Pollux à Cornu Tauri Boreo — | 30 33 05 | 731 67 | 30 33 51 |
| | | | *Dubiæ Distantiæ propter Filum in fixo Telescopio incurvatum ab ultima Annotatione corrigi possint.* | | | |

| Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ☿ Mar. 8 | 8 40 01 | 8 26 16 | Lunæ limb. rem. à Lucida in Cervice Leonis γ — | 30 27 45 | 729 52 | 30 28 27 | ☽ in ♋ 27°½ Lat. Aust. 3½ |
| | 43 11 | 29 26 | ——— rep. | 30 26 30 | 729 02 | 30 27 10 | |
| | 48 45 | 35 00 | Lunæ limb. prox. à Polluce – | 13 11 10 | 315 75 | 13 11 06 | |
| | 50 38 | 36 53 | ——— rep. | 13 11 35 | 315 94 | 13 11 33 | |
| | 54 05 | 40 20 | Lunæ limb. rem. à γ Leonis ——— iter. | 30 21 40 | 727 21 | 30 22 37 | |
| | 56 02 | 42 17 | ——— rep. | 30 21 10 | 726 97 | 30 22 01 | |
| | | | Dist. à Vert. ° ′ ″; Hora suppos. h ′ ″; Err. Horol. ′ ″ | | | | |
| ♄ 11 | 8 10 47 | Caudæ Leonis. | 54 11 50; 7 57 48; —12 59 | | | | ☽ in ♍ 10° Lat. Bor. 0⅔ |
| | 13 03 | | 53 51 40; 8 00 06; —12 57 | | | | |
| | 15 26 | | 53 31 40; 02 24; —13 02 | | | | |
| ♃ Apr. 6 vel ♀ 7 mane. | 20 25 08 | Sol. limbi inferioris | 61 01 00; 20 16 41; — 8 27 | | | | ☽ in ♌ 28°⅘ Lat. Aust. 0½. |
| | 27 28 | | 60 41 10; 18 58; — 8 30 | | | | |
| | 29 48 | | 60 20 30; 21 21; — 8 27 | | | | |
| | 32 11 | | 60 00 30; 23 40; — 8 31 | | | | |
| | 34 28 | | 59 40 40; 25 59; — 8 29 | | | | |
| ♀ 7 | 9 01 37 | 8 53 15 | Lunæ limb. remot. à Vindemiatrice ——— | 32 58 50 | 789 67 | 32 59 03 | ☽ in ♏ 6°⅘ Lat. Aust. 0⅓ |
| | 04 25 | 56 03 | ——— rep. | 32 57 45 | 789 15 | 32 57 45 | |
| | 09 27 | 9 01 05 | Lunæ limb. prox. à Juba Leonis γ ——— | 14 25 40 | 345 57 | 14 25 44 | |
| | 11 35 | 03 13 | ——— rep. | 14 26 20 | 345 86 | 14 26 27 | |
| | 16 28 | 08 06 | Lunæ limb. rem. à Vindemiat. | 32 53 15 | 787 36 | 32 53 16 | |
| | 18 14 | 09 52 | Vindemiatrix à Juba Leonis γ | 40 02 15 | 958 73 | 40 02 05 | |
| | | | Dist. à Vert. ° ′ ″; Hora suppos. h. ′ ″; Err. Horol. ′ ″ | | | | |
| ♄ 15 vel ☉ 16 mane | 20 29 45 | Limbi Solis inferioris | 57 41 50; 20 22 49; — 6 56 | | | | ☽ in ♐ 28° Lat. Bor. 4½ |
| | 32 04 | | 57 21 30; 25 08; — 6 56 | | | | |
| | 34 26 | | 57 01 00; 27 30; — 6 56 | | | | |
| | 36 43 | | 56 41 10; 29 47; — 6 56 | | | | |
| | 39 00 | | 56 21 30; 32 04; — 6 56 | | | | |
| ☉ 16 vel ☽ 17 mane | 14 35 05 | 14 28 15 | Lunæ limb. rem. à clara Boreali in Fronte Scorpii – | 39 21 25 | 942 45 | 39 21 13 | |
| | 37 31 | 30 41 | ——— rep. | 39 22 25 | 942 79 | 39 22 05 | ☽ in ♑ 8° Lat. Bor. 1½. |
| | 42 43 | 35 53 | Lunæ lim. rem. à Boreali in humero. seq. Ophiuchi β | 31 33 20 | 755 34 | 31 33 10 | |
| | 44 52 | 38 02 | ——— rep. | 31 33 30 | 755 52 | 31 33 38 | |
| | 52 31 | 45 41 | Lunæ limb. rem. à dicta Scorpii ——— rep. | 39 27 50 | 944 98 | 39 27 35 | |
| | 54 08 | 47 18 | ——— iter. | 39 28 35 | 945 21 | 39 28 09 | |
| | | | Dist. à Vert. ° ′ ″; Hora suppos. h ′ ″; Err. Horol. ′ ″ | | | | |
| ♀ 28 | 3 56 25 | Limbi Solis inferioris | 56 50 50; 3 50 47; — 5 38 | | | | ☽ in ♊ 4°½ Lat. Aust. 5. |
| | 58 47 | | 57 11 30; 53 04; — 5 43 | | | | |
| | 4 01 00 | | 57 31 40; 55 18; — 5 42 | | | | |

| | Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' '' | Tempora ex Altitud. Correcta. h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' '' | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' '' |
|---|---|---|---|---|---|---|---|
| | ☽ Maij 8 | 8 31 36 | 8 26 24 | ☽ Diamet. \| 6278 \| = 31 19 (Part. per Mic. ' '') | | | |
| ☽ in ♎ 28°½ Lat. Bor. 3½ | | 9 58 37 | 9 53 25 | Lunæ limb. rem. à lucida in Collo Serpentis | 28 57 10 | 693 14 | 28 57 13 |
| | | 10 00 43 | 55 31 | rep. | 28 56 30 | 692 89 | 28 56 36 |
| | | 05 50 | 10 00 38 | Lunæ limb. prox. à Vindemiat. | 25 33 15 | 611 71 | 25 33 06 |
| | | 08 06 | 02 54 | rep. | 25 33 55 | 612 03 | 25 33 54 |
| | | 13 16 | 08 04 | Lunæ limb. rem. à Lucida in Collo Serpentis | 28 53 40 | 691 75 | 28 53 45 |
| | | 16 24 | 11 12 | rep. | 28 53 00 | 691 50 | 28 53 07 |
| | | 19 16 | 14 04 | Lucida in Collo Serpentis à Vindemiatrice | 40 14 40 | 963 74 | 40 14 37 |
| | | | | Dist. à Vert. ° ' '' ; Hora supput. h ' '' ; Err. Horol. ' '' | | | |
| ☽ in ♏ 7°½ Lat. Bor. 4½ | ♂ 9 | 3 57 27 | Sol. limbi inferioris | 55 02 00 ; 3 52 13 ; — 5 14 | | | |
| | | 59 42 | | 55 23 10 ; 54 33 ; — 5 09 | | | |
| | | 4 01 44 | | 55 41 10 ; 56 31 ; — 5 13 | | | |
| | | 03 52 | | 56 00 40 ; 58 38 ; — 5 14 | | | |
| | | 06 08 | | 56 22 00 ; 4 00 58 ; — 5 10 | | | |
| | ☉ 14 vel | 13 59 41 | 13 54 17 | Lunæ lim. rem. ab Ore Pegasi | 44 57 15 | 1076 63 | 44 57 27 |
| | | 14 02 12 | 56 48 | rep. | 44 56 25 | 1076 32 | 44 56 40 |
| ☽ in ♑ 16° Lat. Bor. 2½ | ☽ 15 mane | 08 09 | 14 02 45 | Lunæ limb. rem. à Capite Ophiuchi | 42 13 55 | 1011 35 | 42 13 58 |
| | | 11 03 | 05 39 | rep. | 42 14 35 | 1011 59 | 42 14 35 |
| | | 17 44 | 12 20 | Lunæ limbus rem. ab Ore Pegasi | 44 51 25 | 1074 47 | 44 52 03 |
| | | 19 21 | 13 57 | rep. | 44 50 55 | 1074 25 | 44 51 30 |
| | | 23 22 | 17 58 | Caput Ophiuchi ab Ore Pegasi | 61 02 55 | 1462 39 | 61 03 00 |
| | | | | Dist. à Vert. ° ' '' ; Hora supputat. h. ' '' ; Err. Horol. ' '' | | | |
| | ☽ 15 mane | 20 26 11 | Sol. limbi inferioris | 52 13 30 ; 20 20 47 ; — 5 24 | | | |
| | | 28 30 | | 51 52 30 ; 23 06 ; — 5 24 | | | |
| | | 30 56 | | 51 30 40 ; 25 31 ; — 5 25 | | | |
| | ♃ 18 vel | 14 21 59 | 14 16 04 | Lunæ limb. rem. ab ultima in Capite Sagittarii π | 51 40 50 | 1237 53 | 51 40 45 |
| | ♀ 19 mane | 25 33 | 19 38 | rep. | 51 42 35 | 1238 21 | 51 42 19 |
| ☽ in ♓ 3°½ Lat. Aust. 1½ | | 29 23 | 23 28 | Lunæ limb. rem. ab Ore Pegasi | 24 24 00 | 584 19 | 24 24 06 |
| | | 31 46 | 25 51 | rep. | 24 24 25 | 584 36 | 24 24 32 |
| | | 35 05 | 29 10 | Lunæ limbus rem. à π Sagittarii | 51 46 30 | 1239 78 | 51 46 24 |
| | | 36 54 | 30 59 | rep. | 51 47 20 | 1240 11 | 51 47 14 |
| | | 41 36 | 35 41 | Os Pegasi ab ultima in Capite Sagittarii π | 48 53 45 | 1171 00 | 48 54 05 |
| | | | | Dist. à Vert. ° ' '' ; Hora supput. h. ' '' ; Err. Horol. ' '' | | | |
| | | 20 12 46 | Limbi Solis inferioris | 53 50 30 ; 20 06 50 ; — 5 56 | | | |
| | | 14 50 | | 53 31 50 ; 08 52 ; — 5 58 | | | |
| | | 17 00 | | 53 12 00 ; 11 02 ; — 5 58 | | | |
| | | 19 14 | | 52 51 30 ; 13 17 ; — 5 57 | | | |
| | | 21 31 | | 52 31 00 ; 15 38 ; — 5 53 | | | |

| Anno Christi. 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | | | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|---|---|
| | | | *Maij* 20 *Reduxi hujus Horologii indicem* 9 *min. deinde post Meridiem Distantias à Vertice observavi.* | | | | | | |
| | | | *Dist. à Vert.* ° ' " | *Hor. supput.* h. ' " | *Err. Horol.* ' " | | | | |
| ♄ Maii 20 | 4 32 50 | | 60 15 10 | 4 35 38 | + 2 48 | | | | |
| | 34 30 | Limbi | 60 30 40 | 37 18 | + 2 48 | | | | |
| | 36 40 | Solis inferioris | 60 51 10 | 39 30 | + 2 50 | | | | |
| | 38 50 | | 61 11 00 | 41 37 | + 2 47 | | | | |
| | 40 56 | | 61 30 50 | 43 44 | + 2 48 | | | | |
| ☉ 28 *vel* ☽ 29 *mane* | 20 06 12 | | 52 51 40 | 20 07 20 | + 1 08 | | | | |
| | 08 30 | Limbi | 52 30 30 | 09 38 | + 1 08 | | | | |
| | 10 36 | Solis inferioris | 52 11 10 | 11 44 | + 1 08 | | | | |
| | 12 44 | | 51 51 40 | 13 52 | + 1 08 | | | | |
| | 15 02 | | 51 31 30 | 16 08 | + 1 06 | | | | |
| ♂ 30 | 9 29 17 | 9 30 20 | Lunæ limb. remot. à Regulo | | | 10 21 55 | 248 13 | 10 21 51 | |
| | 32 12 | 33 15 | rep. | | | 10 20 00 | 247 36 | 10 19 55 | |
| | | | *Dist. à Vert.* ° ' " | *Hora supput.* h. ' " | *Err. Horol.* ' " | | | | |
| ☉ Jun. 4 *vel* ☽ 5 *mane* | 20 34 46 | | 48 28 10 | 20 34 01 | — 0 45 | | | | |
| | 36 39 | Limbi | 48 11 10 | 35 54 | — 0 45 | | | | |
| | 37 44 | Solis inferioris | 48 01 30 | 36 59 | — 0 45 | | | | |
| | 38 53 | | 47 51 00 | 38 09 | — 0 44 | | | | |
| ☿ Julii 5 *vel* ♃ 6 *mane* | 20 07 52 | | 54 51 20 | 20 01 54 | — 5 58 | | | | |
| | 10 01 | Limbi | 54 31 50 | 04 01 | — 6 00 | | | | |
| | 12 17 | Solis inferioris. | 54 10 50 | 06 18 | — 5 59 | | | | |
| | 14 22 | | 53 51 40 | 08 25 | — 5 57 | | | | |
| | 16 40 | | 53 30 50 | 10 37 | — 6 03 | | | | |
| ♃ 6 | 10 02 05 | 9 56 02 | Lunæ limb. prox. à Capite Ophiuchi | | | 32 39 35 | 781 74 | 32 39 12 | *☽ in ♐ 25° Lat. Bor. 3½.* |
| | 04 41 | 58 38 | rep. | | | 32 39 45 | 781 80 | 32 39 21 | |
| | 07 46 | 10 01 43 | Lunæ limb. prox. à Boreali in fronte Scorpii | | | 26 07 05 | 625 26 | 26 07 05 | |
| | 09 26 | 03 23 | rep. | | | 26 07 45 | 625 51 | 26 07 42 | |
| | 11 51 | 05 48 | Lunæ limb. prox. à Capite Ophiuchi | | | 32 40 35 | 782 09 | 32 40 05 | |
| | 12 14 | 06 11 | iter. | | | 32 40 45 | 782 16 | 32 40 15 | |
| | 20 30 | 14 27 | Caput Ophiuchi à Boreali in fronte Scorpii | | | 39 07 00 | 936 76 | 39 06 55 | |
| | | | 14 *Horæ ante Plenilunium.* | | | | | | |
| ♄ 8 | 9 50 39 | 9 44 24 | Lunæ limb. prox. ab ultima in Capite Sagittarii π | | | 06 54 55 | 165 33 | 06 54 30 | *☽ in ♑ 19° Lat. Bor. 2¼.* |
| | 53 14 | 46 59 | rep. | | | 06 54 45 | 165 76 | 06 55 35 | |
| | 58 07 | 51 52 | Lunæ limb. prox. ab Australi in Cauda Aquilæ | | | 33 59 15 | 813 66 | 33 59 02 | |
| | 10 00 27 | 54 12 | rep. | | | 33 59 35 | 813 76 | 33 59 16 | |
| | 03 45 | 57 30 | Lunæ limbus prox. à dicta Sagittarii | | | 06 59 25 | 167 29 | 06 59 24 | |
| | 07 13 | 10 00 58 | rep. | | | 07 00 35 | 167 73 | 07 00 31 | |

| | Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillator. h. ′ ″ | Tempora ex Altitud. Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ♄ Julii 9 | 12 44 33 | 12 38 13 | Lunæ limb. prox. à sequente in Cauda Capricorni | 17 22 10 | 416 12 | 17 22 20 |
| | | 47 06 | 40 46 | rep. | 17 21 20 | 415 78 | 17 21 28 |
| ☽ in ♒ 2° Lat. Bor. 1¼ | | 51 50 | 45 30 | Lunæ limb. prox. ab Aquilæ lucida | 28 16 25 | 676 76 | 28 16 14 |
| | | 53 35 | 47 15 | rep. | 28 16 30 | 676 81 | 28 16 21 |
| | | 58 34 | 52 14 | Lunæ limb. prox. à dicta Capricorni | 17 17 10 | 414 10 | 17 17 16 |
| | | 13 00 43 | 54 23 | rep. | 17 16 40 | 413 83 | 17 16 36 |
| | | 04 26 | 58 06 | Sequens in Cauda Capricorni ab Aquilæ lucida | 38 04 30 | 911 70 | 38 04 15 |
| | ♃ 13 vel ♀ 14 mane | 14 49 05 | 14 42 30 | Lunæ limb. prox. à lucida Arietis | 44 26 55 | 1064 44 | 44 26 57 |
| | | 50 40 | 44 05 | rep. | 44 26 20 | 1064 20 | 44 26 21 |
| ☽ in ♓ 20°¼ Lat. Aust. 3 | | 55 09 | 48 34 | Lunæ limbus remotus à Markab | 22 49 10 | 546 26 | 22 49 03 |
| | | 57 25 | 50 50 | rep. | 22 49 25 | 546 33 | 22 49 13 |
| | | 15 01 34 | 54 59 | Lunæ limb. prox. à lucida Arietis | 44 22 00 | 1062 62 | 44 22 24 |
| | | 04 04 | 14 57 29 | rep. | 44 21 10 | 1062 28 | 44 21 33 |
| | | | | Dist. à Vert. ° ′ ″ / Hora suppur. h ′ ″ / Err. Horol. ′ ″ | | | |
| | | 19 45 24 | Sol. limbi inferioris | 59 30 30 / 19 38 47 / — 6 37 | | | |
| | | 47 30 | | 59 11 00 / 40 52 / — 6 38 | | | |
| | | 49 38 | | 58 51 30 / 42 59 / — 6 39 | | | |
| | | 51 52 | | 58 30 30 / 45 15 / — 6 37 | | | |
| | | 53 59 | | 58 10 40 / 47 23 / — 6 36 | | | |
| | ♀ 14 vel ♄ 15 mane | 14 59 21 | 14 52 46 | Lunæ limb. prox. à lucida Plejadum | 53 17 00 | 1275 87 | 53 16 45 |
| ☽ in ♈ 2°¼ Lat. Aust. 4. | | 15 01 37 | 55 02 | rep. | 53 16 10 | 1275 55 | 53 15 57 |
| | | 06 33 | 59 58 | Lunæ limb. prox. ab Algenib Pegasi | 16 32 00 | 396 02 | 16 32 00 |
| | | 08 34 | 15 01 59 | rep. | 16 31 50 | 395 90 | 16 31 42 |
| | | 13 19 | 06 44 | Lunæ limb. prox. à lucida Plejadum | 53 11 45 | 1273 77 | 53 11 30 |
| | | 15 06 | 08 31 | rep. | 53 11 05 | 1273 52 | 53 10 52 |
| | | 18 27 | 11 52 | Lucida Plejadum ab Algenib Pegasi | 50 55 35 | 1219 45 | 50 55 25 |
| | | | | Dist. à Vert. ° ′ ″ / Hora suppur. h ′ ″ / Err. Horol. ′ ″ | | | |
| | ☉ 23 vel ☽ 24 mane | 20 03 40 | Sol. limbi inferioris | 58 31 00 / 19 57 20 / — 6 20 | | | |
| | | 05 50 | | 58 11 00 / 59 32 / — 6 18 | | | |
| | | 08 05 | | 57 50 40 / 20 01 46 / — 6 19 | | | |
| | | 10 19 | | 57 30 30 / 03 59 / — 6 20 | | | |
| | | 12 25 | | 57 11 10 / 06 07 / — 6 18 | | | |
| | ☿ Aug. 2 | 9 03 21 | 8 57 56 | Lunæ limb. prox. ab ultima in Capite Sagittarii π | 20 46 40 | 497 75 | 20 47 16 |
| | | 05 17 | 59 52 | rep. | 20 45 50 | 497 40 | 20 46 24 |
| ☽ in ♐ 21° Lat. Bor. 4. | | 17 42 | 9 12 17 | Lunæ limb. prox. à Capite Ophiuchi | 31 58 00 | 765 15 | 31 57 44 |
| | | 19 42 | 14 17 | rep. | 31 58 05 | 765 18 | 31 57 48 |

| Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♃ Aug. 2 | 9 23 44 | 9 18 19 | Lunæ limb. prox. à dicta Sagittarii | 20 39 15 | 494 75 | 20 39 44 | |
| | 26 04 | 20 39 | rep. | 20 38 25 | 494 39 | 20 38 48 | |
| | 29 28 | 24 03 | Caput Ophiuchi ab ultima in Capite Sagittarii | 40 51 45 | 978 65 | 40 52 01 | |
| | | | Dist. à Vert. ° ′ ″ — Hor. suppur. h ′ ″ — Err. Horol. ′ ″ | | | | |
| ♃ 3 | 3 38 04 | Limbi Solis inferioris. | 56 23 00 — 3 52 48 — — 5 16 | | | | |
| | 42 43 | | 57 02 40 — 37 26 — — 5 17 | | | | |
| | 44 22 | | 57 18 20 — 39 06 — — 5 17 | | | | |
| | 46 00 | | 57 32 40 — 40 44 — — 5 16 | | | | |
| | 47 35 | | 57 46 10 — 42 16 — — 5 19 | | | | |
| ♀ 4 | 8 47 35 | 8 42 31 | Lunæ limb. rem. ab humero Aquarii præcedente | 34 15 35 | 820 36 | 34 15 48 | |
| | 50 07 | 45 03 | rep. | 34 14 55 | 820 06 | 34 15 03 | |
| | 54 43 | 49 39 | Lunæ limb. prox. à sequente in pede Antinoi vel Aquilæ λ — *Luna in Nonagesimo.* | 15 07 10 | 362 14 | 15 07 10 | ☽ in ♑ $15^{\circ}\frac{5}{6}$ *Lat. Bor.* $2\frac{1}{4}$ |
| | 56 54 | 51 50 | rep. | 15 07 20 | 362 25 | 15 07 27 | |
| | 9 01 24 | 56 20 | Lunæ limb. rem. à dicta Aquarii | 34 11 10 | 818 50 | 34 11 09 | |
| | 03 47 | 58 43 | rep. | 34 10 20 | 818 17 | 34 10 20 | |
| | 06 36 | 9 01 32 | Præcedens humerus Aquarii à sequente in pede Antinoi vel Aquilæ λ | 36 10 05 | 865 96 | 36 09 51 | |
| | 08 40 | 03 36 | rep. | 36 10 10 | 866 02 | 36 10 00 | |
| | | | Dist. à Vert. ° ′ ″ — Hor. Suppur. h ′ ″ — Err. Hor. ′ ″ | | | | |
| ☉ 6 vel ☽ 7 mane | 20 17 10 | Sol. limbi inferioris. | 59 27 20 — 20 12 32 — — 4 38 | | | | |
| | 19 04 | | 59 10 40 — 14 25 — — 4 39 | | | | |
| | 21 24 | | 58 50 30 — 16 43 — — 4 41 | | | | |
| | 23 36 | | 58 31 00 — 18 56 — — 4 40 | | | | |
| | 25 50 | | 58 11 10 — 21 11 — — 4 39 | | | | |
| ☽ 7 p. m. | | | 8 *Horæ ante defectum.* | | | | |
| | 9 50 20 | 9 45 50 | Lunæ limb. prox. ab ultima in Capite Sagittarii | 39 16 50 | 940 66 | 39 16 45 | |
| | 52 16 | 47 46 | *Luna in Nonagesimo* rep. | 39 17 55 | 941 11 | 39 17 52 | |
| | 57 02 | 52 32 | Lunæ limb. prox. ab humero Aquarii præcedente | 09 19 15 | 223 11 | 09 19 13 | |
| | 58 49 | 54 19 | rep. | 09 19 35 | 223 23 | 09 19 31 | ☽ in ♒ $21^{\circ}\frac{1}{3}$ *Lat. Aust.* $0\frac{2}{3}$ |
| | 10 01 50 | 57 20 | Lunæ limb. prox. à dicta Sagittarii | 39 21 10 | 942 37 | 39 21 02 | |
| | 03 36 | 59 06 | rep. | 39 21 50 | 942 65 | 39 21 44 | |
| | 06 44 | 10 02 14 | Ultima in Capite Sagittarii ab Humero Aquarii præcedente | 37 39 00 | 901 54 | 37 38 50 | |
| | | | *Eclipsin Lunarem (propter nubes) Mane sequente* Grenovici *non Licuit observare.* | | | | |

| | Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitud. Correcta h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochlea Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ☽ Aug. 7 *vel* ♂ 8 *mane* | | | Parisiis *tamen in Observatorio Regio, ut Literis ad me datis inde Julii* 8 *St. Nov.* 1683. *scribit Clarissimus* J.D. Cassinus, *sereniore Cælo observarunt ut sequitur.* | | | |
| | | | 16 03 00 | Apparuit Penumbra. | | | |
| | | | 26 23 | Initium inter Grimaldum & Galilæum. | | | |
| | | | 28 54 | Galileus totus in Umbra. | | | |
| | | | 30 00 | Grimaldus totus. | | | |
| | | | 31 28 | Aristarchus incipit. | | | |
| | | | 33 28 | Aristarchus totaliter immersus distinctè adhuc videbatur in Umbra. | | | |
| | | | 36 30 | Initium Maris Rotundi. | | | |
| | | | 40 00 | Copernicus incipit, sed ob vapores dubia hæc Observatio. | | | |
| | | | 39 25 | Limbus Lunæ inferiore apparet altus. | 01 03 05 | | |
| | | | 42 25 | ——————— | 58 30 | | |
| | | | 44 43 | ——————— | 32 30 | | |
| | | | 54 49 | Limbus Solis præcedens apparet altus. | 15 30 | | |
| | | | 57 52 | Limbus sequens in eadem Altitudine. | | | |
| | | | | *16 hor. post Defectum.* | | | |
| | ♂ 8 | 9 59 47 | 9 55 32 | Os Pegasi ab Australi in Cornu Capricorni β —— | 32 07 50 | 769 18 | 32 07 48 |
| | | 10 01 50 | 57 35 | ——————— rep. | 32 07 50 | 769 24 | 32 07 57 |
| ☽ in ♓ 3°½ Lat. Aust. 1½ | | 04 37 | 10 00 22 | Lunæ limb. rem. à Capricorni β —— | 34 30 50 | 826 23 | 34 30 29 |
| | | 07 02 | 02 47 | ——————— rep. | 34 31 50 | 826 60 | 34 31 24 |
| | | 12 08 | 07 53 | Os Pegasi à Limbo Lunæ remoto —— | 24 46 45 | 593 24 | 24 46 46 |
| | | | | *Luna in Nonagesimo.* | | | |
| | | 14 03 | 09 48 | ——————— rep. | 24 47 05 | 593 32 | 24 46 59 |
| | | 18 45 | 14 30 | Lunæ limb. remot. à Capricorni β —— | 34 36 20 | 828 47 | 34 36 05 |
| | | 20 52 | 16 37 | ——————— rep. | 34 36 50 | 828 67 | 34 36 35 |
| | ☿ 9 | 10 48 06 | 10 44 07 | Lunæ limb. rem. à Markab Pegasi —— | 22 44 30 | 544 27 | 22 44 03 |
| | | 52 12 | 48 13 | ——————— rep. | 22 44 00 | 544 21 | 22 43 56 |
| | | 56 04 | 52 05 | Lunæ limb. rem. à Capricorni β —— | 46 51 20 | 1122 12 | 46 51 33 |
| ☽ in ♓ 15 ¾ Lat. Aust. 2¾ | | 58 16 | 54 17 | *Luna in Nonagesimo* rep. | 46 52 10 | 1122 48 | 46 52 28 |
| | | 11 02 25 | 58 26 | Lunæ limb. rem. à Markab. | 22 43 35 | 544 02 | 22 43 25 |
| | | 06 08 | 11 02 09 | ——————— rep. | 22 43 35 | 543 99 | 22 43 21 |
| | | 12 11 | 08 12 | Markab Pegasi à β Capricorni —— | 50 20 55 | 1205 77 | 50 21 09 |
| | | 14 42 | 10 43 | ——————— rep. | 50 20 45 | 1205 70 | 50 20 58 |

| ANNO CHRISTI 1682. *Styl. Vet.* | *Tempora per Horologium Oscillatorium* h. ′ ″ | *Tempora ex Altitud. Correcta.* h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | | | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|
| | | | *Dist. à Vert.* ° ′ ″ | *Hor. supput.* h ′ ″ | *Err. Horol.* ′ ″ | | | |
| ♀ Aug. 11 | 20 13 02 | | 61 11 20 | 20 09 43 | — 3 19 | | | |
| *vel* | 15 20 | Sol. limbi inferioris. | 60 51 30 | 11 58 | — 3 22 | | | |
| ♄ 12 | 17 34 | | 60 31 40 | 14 15 | — 3 21 | | | |
| *mane* | 19 50 | | 60 11 50 | 16 29 | — 3 21 | | | |
| | 22 17 | | 59 50 40 | 18 55 | — 3 22 | | | |
| | | | *Appulsus Lunæ ad Palilicium observatus Cælo Nubibus sparsis aliquando subducto.* | | | Part. per Mic. | ′ ″ | |
| ♂ 15 | 16 32 58 | 16 30 38 | Lunæ Diameter ——— | | | 6441 | = 32 08 | |
| *vel* | 35 56 | 33 36 | ——— rep. | | | 6448 | = 32 10 | |
| ☿ 16 | 40 08 | 37 48 | Lunæ limb. prox. à Fixâ ——— | | | 4738 | = 23 36 | |
| *mane* | 48 02 | 45 43 | ——— rep. | | | 4117 | = 20 32 | |
| | 58 54 | 56 35 | ——— iter. | | | 3280 | = 16 22 | |
| | 17 00 54 | 58 35 | ——— iter. | | | 3111 | = 15 32 | |
| | 11 42 | 17 09 23 | ——— denuò | | | 2307 | = 11 31 | |
| | 14 58 | 12 39 | Lunæ Cusp. Bor. à Fixa ——— | | | 4203 | = 20 58 | |
| | 17 31 | 15 12 | ——— rep. | | | 3946 | = 19 48 | |
| | | | *Tunc nubes Lunam excepere densiores sub quibus latuit usque 17h 51′ per Horologium tunc clarè emicuit, sed fixa non apparuit quam propterea ante tectum credo.* | | | | | |
| | | | *Dist. à Vert.* ° ′ ″ | *Hor. supput.* h ′ ″ | *Err. Horol.* ′ ″ | | | |
| | 20 08 16 | | 62 49 40 | 8 06 04 | — 2 12 | | | |
| | 10 21 | Limbi Solis inferioris | 62 31 20 | 08 08 | — 2 13 | | | |
| | 12 41 | | 62 11 30 | 10 24 | — 2 17 | | | |
| | 15 00 | | 61 51 00 | 12 44 | — 2 16 | | | |
| | 17 17 | | 61 31 10 | 15 00 | — 2 17 | | | |
| ♃ 31 | 20 23 48 | Limbi Solis inferioris | 64 59 30 | 20 24 35 | + 0 47 | | | |
| | 25 59 | | 64 41 30 | 26 45 | + 0 46 | | | |
| | 28 20 | | 64 21 10 | 29 12 | + 0 52 | | | |
| ☽ Sept. 4 | 8 50 46 | 8 52 03 | Lunæ limb. prox. à β Capricorni ——— | | | 30 06 05 | 720 66 | 30 06 10 |
| | 53 36 | 54 53 | ——— rep. | | | 30 07 10 | 721 09 | 30 07 15 |
| | 57 40 | 58 57 | Lunæ limb. prox. ab humero sequente Aquarii ——— | | | 11 49 00 | 282 93 | 11 48 57 |
| | 9 00 05 | 9 01 22 | ——— rep. | | | 11 49 20 | 283 06 | 11 49 16 ☽ in ♒ 29° ½ Lat. Aust. 1 ½. |
| | 03 43 | 05 00 | Lunæ limb. prox. à Capricorni β ——— rep. | | | 30 10 45 | 722 51 | 30 10 50 |
| | 05 33 | 06 50 | ——— iter. | | | 30 11 30 | 722 81 | 30 11 34 |
| | 11 44 | 13 01 | Humerus Aquarii sequens ab Australi in Cornu Capricorni β ——— | | | 29 38 55 | 709 87 | 29 39 07 |
| | 13 20 | 14 37 | ——— rep. | | | 29 39 00 | 709 91 | 29 39 13 |

| | Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitud. Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ' " | Horr. supput. h ' " | Err. Horol. ' " | Distantiæ per lineas Diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|---|---|---|
| | ♂ Sept. 5 | 20 11 31 | Limbi Solis inferioris | | 68 11 00 | 20 13 06 | + 1 35 | | | |
| | vel | 12 53 | | | 67 51 00 | 15 29 | + 1 31 | | | |
| | ☿ 6 | 16 16 | | | 67 32 00 | 17 45 | + 1 29 | | | |
| | mane | 18 51 | | | 67 10 40 | 20 19 | + 1 28 | | | |
| | | 21 10 | | | 66 51 20 | 22 39 | + 1 29 | | | |
| | ♀ 8 | 13 47 04 | 13 48 54 | Lunæ limb. remot. à Palilicio | | | | 44 15 05 | 1059 81 | 44 15 21 |
| | vel | 49 29 | 51 19 | ——— rep. | | | | 44 14 00 | 1059 40 | 44 14 20 |
| | ♄ 9 mane | 51 08 | 52 58 | Palilicium à fixa verè supra Lunam & in Antecedentia ——— | | | | 44 05 45 | 1056 01 | 44 05 51 |
| ☽ in ♈ 21°¼ Lat. Aust. 4½ | | 54 35 | 56 25 | Lunæ limb. rem. à Capite Andromedæ ——— | | | | 32 42 20 | 782 77 | 32 41 47 |
| | | 56 35 | 58 25 | ——— rep. | | | | 32 42 45 | 782 89 | 32 42 05 |
| | | 14 01 53 | 14 03 43 | Fixa supra Lunam (♓ ν) à Capite Andromedæ — | | | | 32 17 00 | 772 56 | 32 16 15 |
| | | 05 56 | 07 46 | Lunæ limb. remot. à Palilicio | | | | 44 08 05 | 1056 96 | 44 08 13 |
| | | 07 05 | 08 55 | ——— rep. | | | | 44 07 15 | 1056 63 | 44 07 24 |
| | | 20 30 35 | Limbi Solis inferioris | | 66 30 50 | 20 32 24 | + 1 49 | | | |
| | | 33 00 | | | 66 11 20 | 34 51 | + 1 51 | | | |
| | | 35 30 | | | 65 51 10 | 37 23 | + 1 53 | | | |
| | | 38 06 | | | 65 31 10 | 39 54 | + 1 48 | | | |
| | ♄ 9 | 10 29 15 | 10 31 08 | Lunæ limb. prox. à lucida Plejadum ——— | | | | 25 03 20 | 599 74 | 25 03 05 |
| | | 31 01 | 32 54 | ——— rep. | | | | 25 02 35 | 599 47 | 25 02 24 |
| ☽ in ♉ 2°½ Lat. Aust. 5¼ | | 33 50 | 35 43 | Lunæ limb. rem. à clara in lino Piscium *n* ——— | | | | 14 58 25 | 358 65 | 14 58 27 |
| | | 36 35 | 38 28 | ——— rep. | | | | 14 59 05 | 358 94 | 14 59 10 |
| | | 40 15 | 42 08 | Lunæ limb. prox. à lucida Plejadum ——— | | | | 24 58 35 | 597 88 | 24 58 24 |
| | | 42 50 | 44 43 | ——— rep. | | | | 24 57 15 | 597 31 | 24 56 59 |
| | | 46 00 | 47 53 | Pleias à clara in lino Piscium *n* ——— | | | | 33 05 05 | 791 90 | 33 04 37 |
| | ☽ 18 | 20 50 00 | Sol. limbi inferioris | | 67 10 10 | 20 53 56 | + 3 26 | | | |
| | vel | 52 34 | | | 66 51 20 | 56 00 | + 3 26 | | | |
| | ♂ 19 | 55 21 | | | 66 31 30 | 58 44 | + 3 23 | | | |
| | mane | 58 08 | | | 66 11 10 | 21 01 32 | + 3 24 | | | |
| | | 21 00 52 | | | 65 51 30 | 04 18 | + 3 26 | | | |
| | ☉ 24 | 20 28 30 | Limbi Solis inferioris | | 71 47 20 | 20 32 38 | + 4 08 | | | |
| | vel | 30 44 | | | 71 30 20 | 34 50 | + 4 06 | | | |
| | ☽ 25 | 33 11 | | | 71 11 40 | 37 17 | + 4 06 | | | |
| | mane | 35 51 | | | 70 51 20 | 39 58 | + 4 07 | | | |
| | | 38 40 | | | 70 31 00 | | | | | |

| ANNO CHRISTI 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♃ Sept. 28 | 7 01 26 | 7 05 20 | Lunæ limb. rem. à sequente in Cauda Capricorni | 30 31 15 | 730 71 | 30 31 25 | |
| | 04 41 | 08 35 | rep. | 30 30 10 | 730 20 | 30 30 09 | |
| | 09 56 | 13 50 | Lunæ limb. prox. ab Ala Aquilæ inferiore δ | 22 37 55 | 541 76 | 22 37 45 | |
| | 12 12 | 16 06 | rep. | 22 38 00 | 541 81 | 22 37 52 | ☽ in ♑ 19°½ Lat. Bor. 2 |
| | 16 17 | 20 11 | Lunæ limb. rem. à dicta Capricorni δ | 30 25 45 | 728 56 | 30 26 01 | |
| | 18 03 | 21 57 | rep. | 30 25 25 | 728 43 | 30 25 42 | |
| | 22 22 | 26 16 | Sequens in Cauda Capricorni δ ab Australi Ala Aquilæ δ | 39 53 20 | 955 30 | 39 53 28 | |
| ☽ Oct. 2 | 10 10 08 | 10 13 38 | Lunæ limb. rem. à Nodo Lini Piscium | 47 31 35 | 1138 04 | 47 31 27 | |
| | 12 08 | 15 38 | rep. | 47 30 55 | 1137 77 | 47 30 47 | |
| | 17 38 | 21 08 | Lunæ limb. rem. & Pegasi ζ | 20 24 00 | 488 61 | 20 24 15 | |
| | 20 30 | 24 00 | rep. | 20 23 40 | 488 51 | 20 24 00 | ☽ in ♓ 8° Lat. Aust. 2 |
| | 25 45 | 29 15 | Lunæ limb. rem. à Nodo Lini Piscium | 47 25 45 | 1135 69 | 47 25 33 | |
| | 28 28 | 31 58 | rep. | 47 24 35 | 1135 32 | 47 24 37 | |
| | 33 24 | 36 54 | Nodus Lini Piscium à ζ Pegasi | 50 22 40 | 1206 40 | 50 22::44 | |
| | | | Dist. à Vert. ° ′ ″ — Hora supput. h. ′ ″ — Err. Horol. ′ ″ | | | | |
| ♀ 6 | 7 21 36 | Lucidæ Arietis | 63 11 20 — 7 24 46 — + 3 10 | | | | |
| | 23 49 | | 62 51 10 — 27 00 — + 3 11 | | | | |
| | 25 55 | | 62 31 30 — 29 06 — + 3 11 | | | | |
| | 28 03 | | 62 11 40 — 31 14 — + 3 11 | | | | |
| | 30 15 | | 61 51 20 — 33 22 — + 3 07 | | | | |
| ♀ 20 | 7 01 54 | Lucidæ Arietis | 58 31 50 — 7 01 21 — − 0 33 | | | | |
| | 04 06 | | 58 11 00 — 03 35 — − 0 31 | | | | |
| | 06 14 | | 57 51 20 — 05 42 — − 0 32 | | | | |
| | 08 29 | | 57 30 40 — 07 55 — − 0 34 | | | | |
| | 10 31 | | 57 11 40 — 09 57 — − 0 34 | | | | |
| ♄ 21 | | | *Hora 1½ p. m. promovi Indicem minutorum 16, ut Tempora quam proximè Æqualia exhiberet.* | | | | |
| | | | Dist. à Vert. ° ′ ″ — Hora supput. h. ′ ″ — Err. Horol. ′ ″ | | | | |
| ☽ 23 | 6 35 26 | Lucidæ Arietis | 58 31 40 — 6 49 33 — +14 07 | | | | |
| | 37 36 | | 58 11 20 — 51 44 — +14 08 | | | | |
| | 39 39 | | 57 51 10 — 53 48 — +14 09 | | | | |
| | 41 59 | | 57 30 50 — 56 06 — +14 07 | | | | |
| | 44 06 | | 59 11 00 — 58 12 — +14 06 | | | | |
| ♃ 26 | 6 47 34 | 7 00 57 | Lunæ limb. rem. ab Aquilæ lucida | 28 23 55 | 679 74 | 28 23 42 | |
| | 50 33 | 03 56 | rep. | 28 23 40 | 679 69 | 28 23 35 | ☽ in ♑ 26°½ Lat. Bor. 1½ |
| | 56 00 | 09 23 | Lunæ limb. rem. à sequ. in Cauda Capricorni | 22 50 25 | 546 78 | 22 50 21 | |
| | 57 48 | 11 11 | rep. | 22 49 30 | 546 44 | 22 49 30 | |

| | Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, Revol. Cent. | cum Circuli partibus Respondentibus. ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ♃ Oct. 26 | 7 02 40 | 7 16 03 | Lunæ limb. rem. ab Aquila — | 28 23 35 | 679 63 | 28 23 25 |
| | | 04 25 | 17 48 | ——— rep. | 28 23 35 | 678 65 | 28 23 28 |
| | | 06 31 | 19 54 | Lunæ limb. prox. ab Aquila — | 27 53 15 | 667 64 | 27 53 24 |
| | | 11 13 | 24 36 | Aquilæ lucida à sequente in Cauda Capricorni ——— | 38 04 50 | 911 91 | 38 04 46 |
| | | | | *Dist. à Vert.*; *Hora supp.*; *Err. Horol.* (° ′ ″; h. ′ ″; ′ ″) | | | |
| | ♄ 28 | 6 12 30 | Lucidæ Arietis | 59 11 20; 6 25 26; +12 56 | | | |
| | | 14 42 | | 58 51 00; 27 37; +12 55 | | | |
| | | 16 56 | | 58 30 00; 29 5[illegible]; +12 56 | | | |
| | | 18 57 | | 58 11 30; 31 51; +12 54 | | | |
| | | 21 09 | | 57 50 50; 34 04; +12 55 | | | |
| | | 50 31 | 7 03 26 | Lunæ limb. rem. ab Aquarii φ ——— | 22 25 35 | 536 92 | 22 25 36 |
| | | 52 44 | 05 36 | ——— rep. | 22 24 45 | 536 63 | 22 24 52 |
| | | 59 19 | 12 08 | Lunæ limb. prox. ab humero Aquarii præced. ——— | 09 24 40 | 225 31 | 09 24 45 |
| ☽ in ♒ 20°½ Lat. Aust. 0⅚ | | 7 01 22 | 14 18 | ——— rep. | 09 25 05 | 225 35 | 09 24 51 |
| | | 06 08 | 19 03 | Lunæ limb. rem. ab Aquarii φ ——— | 22 20 10 | 534 73 | 22 20 06 |
| | | 08 04 | 20 59 | ——— rep. | 22 19 10 | 534 37 | 22 19 10 |
| | | 11 20 | 24 15 | Inter Fixas ——— | 25 33 25 | 611 81 | 25 33 21 |
| | | | | | *Part. per Mic.* | ′ ″ | |
| | | 59 58 | 8 12 53 | Lunæ Diameter ——— | 5935 | = 29 36 | T. F. |
| | | 8 03 38 | 16 33 | ——— rep. | 5945 | = 29 39 | T. F. |
| | | 10 12 | 23 07 | ——— iter. | 5955 | = 29 42 | Ego. |
| | | | | *Dist. à Vert.*; *Hora supp.*; *Err. Horol.* (° ′ ″; h. ′ ″; ′ ″) | | | |
| | ♂ 31 | 6 20 40 | Lucidæ Arietis | 56 11 30; 6 32 37; +11 57 | | | |
| | | 22 54 | | 55 50 30; 34 53; +11 59 | | | |
| | | 24 59 | | 55 31 30; 36 56; +11 57 | | | |
| | | 27 14 | | 55 10 20; 39 13; +11 59 | | | |
| | | 29 23 | | 54 51 00; 41 19; +11 56 | | | |
| | ♂ Nov. 7 | 6 14 12 | Lucidæ Arietis | 53 11 40; 6 23 21; + 9 09 | | | |
| | | 16 23 | | 52 51 30; 25 33; + 9 10 | | | |
| | | 18 36 | | 52 31 10; 27 47; + 9 11 | | | |
| | ♂ 7 vel | 16 34 41 | 16 43 31 | Lunæ limb. rem. à Cornu Tauri Boreo ——— | 19 55 25 | 477 14 | 19 55 22 |
| ☽ in ♋ 5°½ Lat. Aust. 3⅝. | ☿ 8 mane | 37 37 | 46 27 | ——— rep. | 19 56 40 | 477 61 | 19 56 33 |
| | | 42 11 | 51 01 | Lunæ limb. prox. à Castore | 17 04 55 | 409 18 | 17 04 57 |
| | | 43 54 | 52 44 | ——— rep. | 17 04 45 | 409 06 | 17 04 39 |
| | | 47 15 | 56 05 | Lunæ limb. rem. à Cornu Tauri Boreo ——— | 20 00 30 | 479 20 | 20 00 33 |
| | | 48 44 | 57 34 | ——— rep. | 20 01 00 | 479 40 | 20 01 03 |
| | ♃ 9 vel | 17 40 03 | 17 47 57 | Lunæ limb. rem. à Calce Castoris ——— | 34 07 30 | 817 03 | 34 07 28 |
| | ♀ 10 mane | 42 47 | 50 41 | ——— rep. | 34 08 40 | 817 54 | 34 08 45 |
| | | 46 25 | 54 19 | Lunæ limb. prox. à Corde Hydræ ——— | 26 51 45 | 643 11 | 26 51 52 |
| | | 48 05 | 55 59 | ——— rep. | 26 51 15 | 642 92 | 26 51 24 |

| Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' '' | Tempora ex Altitudinibus Correcta. h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' '' | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' '' | |
|---|---|---|---|---|---|---|---|
| ♃ Nov. 9 vel | 17 51 37 | 17 59 31 | Lunæ limb. rem. à Calce Castoris | 34 12 35 | 819 07 | 34 12 35 | ☽ in ♌ 4½. Lat. Aust. 1¼. |
| ♀ 10 | 53 20 | 18 01 14 | rep. | 34 13 25 | 819 42 | 34 13 27 | |
| mane. | 57 20 | 05 14 | Cor Hydræ à Calce Castoris | 54 54 20 | 1314 97 | 54 54 32 | |
| | 58 00 | 05 54 | rep. | 54 54 51 | 1314 98 | 54 54 33 | |
| | | | Dist. à Vert. ° ' '' · Hor. supp. h ' '' · Err. Horol. ' '' | | | | |
| ♀ 10 | 5 28 44 | Lucidæ Arietis | 58 31 00 · 5 36 26 · + 7 42 | | | | |
| | 30 49 | | 58 11 30 · 38 31 · + 7 42 | | | | |
| | 32 58 | | 57 51 40 · 40 39 · + 7 41 | | | | |
| | 35 10 | | 57 31 20 · 42 50 · + 7 40 | | | | |
| | 37 20 | | 57 11 00 · 45 01 · + 7 41 | | | | |
| ☉ 12 vel | 18 07 31 | 18 13 55 | Lunæ limb. prox. à Vindemiatrice | 22 22 40 | 535 65 | 22 22 24 | |
| ☽ 13 | 9 26 | 15 50 | rep. | 22 21 40 | 535 34 | 22 21 38 | |
| mane | 14 17 | 20 41 | Lunæ limb. rem. à lucida in lumbis Leonis | 16 41 35 | 399 71 | 16 41 13 | ☽ in ♍ 17°¼. Lat. Bor. 1⅝. |
| | 16 35 | 22 59 | rep. | 16 42 15 | 400 00 | 16 41 57 | |
| | 25 13 | 31 37 | Lunæ limb. prox. à Vindemiatrice | 22 16 45 | 533 32 | 22 16 33 | |
| | 27 48 | 35 12 | rep. | 22 16 10 | 533 07 | 22 15 55 | |
| | 35 58 | 42 22 | Vindemiatrix à lucida in lumbis Leonis | 27 41 00 | 662 76 | 27 41 10 | |
| | 23 31 46 | 23 37 30 | Lunæ limb. prox. à Solis proximo | 57 58 15 | 1388 47 | 57 58 13 | |
| | 34 35 | 40 20 | rep. | 57 57 05 | 1387 97 | 57 56 58 | |
| | 39 10 | 44 55 | Lunæ limb. prox. à Solis remoto | 58 27 15 | 1399 97 | 58 26 57 | |
| | 41 17 | 47 02 | *rep. | 58 26 15 | 1399 60 | 58 26 02 | |
| | 42 24 | 48 09 | *iter. | 58 25 45 | 1399 32 | 58 25 20 | |
| | | | Dist. à Vert. ° ' '' · Hora supput. h ' '' · Err. Horol. ' '' | | | | |
| ☽ 20 | 8 01 50 | Palilicii | 56 41 10 · 8 4 16 · + 2 26 | | | | |
| | 04 14 | | 56 20 20 · 6 36 · + 2 22 | | | | |
| | 06 27 | | 56 00 40 · 8 49 · + 2 22 | | | | |
| | 08 36 | | 55 41 20 · 11 00 · + 2 24 | | | | |
| | 13 06 | | 55 01 10 · 15 34 · + 2 28 | | | | |
| ☉ 26 | 6 00 38 | 6 00 03 | Lunæ limb. rem. à Nodo Lini Piscium | 45 40 30 | 1093 80 | 45 40 30 | |
| | 02 19 | 01 44 | rep. | 45 39 50 | 1093 55 | 45 39 52 | |
| | 06 27 | 05 52 | Lunæ limb. rem. à Pegasi ζ | 20 48 20 | 498 38 | 20 48 52 | ☽ in ♓ 9°½. Lat. Aust. 2¾. |
| | 08 21 | 07 46 | rep. | 20 48 20 | 498 36 | 20 48 49 | |
| | 12 38 | 12 03 | Lunæ limb. rem. à Nodo Lini Piscium | 45 36 30 | 1092 16 | 45 36 24 | |
| | 14 08 | 13 33 | rep. | 45 35 40 | 1091 85 | 45 35 36 | |
| | 18 45 | 18 10 | Nodus Lini Piscium à ζ Pegasi | 50 23 00 | 1206 39 | 50 22 42 | |

| | Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitudinibus Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | | | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Dist. à Vert. ° ' " | Hor. supputat. h ' " | Err. Horol. ' " | | | |
| | ☉ Nov. 26 | 6 52 51 | Palilicii | 63 40 50 | 6 52 15 | — 0 36 | | | |
| | | 54 59 | | 63 20 50 | 54 25 | — 0 34 | | | |
| | | 57 08 | | 63 01 10 | 56 33 | — 0 35 | | | |
| | | 59 14 | | 62 42 00 | 58 37 | — 0 37 | | | |
| | | 7 01 30 | | 62 21 00 | 7 00 54 | — 0 36 | | | |
| | ☽ 27 | 5 13 42 | 5 12 36 | Lunæ limbus remotus à Lucida Arietis | | | 44 06 20 | 1056 26 | 44 06 28 |
| | | 15 48 | 14 42 | rep. | | | 44 05 50 | 1056 06 | 44 05 58 |
| | | 21 02 | 19 56 | Lunæ limbus proximus à Markab | | | 23 00 30 | 550 70 | 23 00 12 |
| ☽ in ♓ 21°½ Lat. Aust. 3⅔ | | 23 38 | 22 32 | rep. | | | 23 00 30 | 550 73 | 23 00 18 |
| | | 28 33 | 27 27 | Lunæ limbus remotus à Lucida Arietis | | | 44 01 20 | 1054 25 | 44 01 27 |
| | | 30 27 | 29 21 | rep. | | | 44 00 40 | 1054 00 | 44 00 50 |
| | | | | Dist. à Vert. ° ' " | Hora supp. h. ' " | Err. Horol. ' " | | | |
| | ☽ Dec. 4 | 6 45 48 | Palilicii | 60 01 30 | 6 40 53 | — 4 55 | | | |
| | | 48 07 | | 59 40 40 | 43 11 | — 4 56 | | | |
| | | 50 13 | | 59 21 30 | 45 17 | — 4 56 | | | |
| | | 52 24 | | 59 01 20 | 47 31 | — 4 53 | | | |
| | | 54 44 | | 58 40 30 | 49 49 | — 4 55 | | | |
| | | 9 12 13 | 9 07 15 | Lunæ limb. rem. à Castore | | | 24 23 15 | 583 89 | 24 23 21 |
| | | 14 03 | 09 05 | rep. | | | 24 22 30 | 583 59 | 24 22 36 |
| | | 15 25 | 10 27 | Lunæ limb. prox. à Castore | | | 23 48 50 | 570 17 | 23 49 00 |
| | | 19 10 | 14 12 | Lunæ limb. rem. à Cornu Tauri Boreo | | | 13 14 25 | 316 99 | 13 14 12 |
| ☽ in ♊ 25°½ Lat. Aust. 4½ | | 21 04 | 16 06 | rep. | | | 13 15 05 | 317 24 | 13 14 50 |
| | | 22 37 | 17 39 | Lunæ limbus alt. à dicta Fixa | | | 12 42 25 | 304 18 | 12 42 09 |
| | | 25 42 | 20 44 | Lunæ limb. prox. à Castore | | | 23 44 25 | 568 38 | 23 44 30 |
| | | 28 03 | 23 05 | Lunæ limb. remotus à Castore | | | 24 16 25 | 581 10 | 24 16 22 |
| | | 29 27 | 24 29 | rep. | | | 24 16 10 | 580 94 | 24 15 58 |
| | | 31 51 | 26 53 | Castor à Cornu Tauri Boreo | | | 27 48 30 | 665 78 | 27 48 44 |
| | ♂ 5 | 10 56 50 | 10 51 17 | Lunæ limb. remot. à Palilicio | | | 36 57 55 | 885 07 | 36 57 39 |
| | | 58 51 | 53 18 | rep. | | | 36 58 45 | 885 42 | 36 58 32 |
| | | 11 01 23 | 55 50 | Lunæ limbus proximus à Pocyone | | | 15 15 45 | 365 57 | 15 15 45 |
| ☽ in ♋ 12° Lat. Aust. 3½ | | 03 05 | 57 33 | rep. | | | 15 15 25 | 365 44 | 15 15 25 |
| | | 05 55 | 11 00 22 | Lunæ limbus remotus à Palilicio | | | 37 02 25 | 886 93 | 37 02 18 |
| | | 07 22 | 01 50 | rep. | | | 37 03 10 | 887 20 | 37 02 58 |
| | | | | Dist. à Vert. ° ' " | Hora Supp. h. ' " | Err. Horol. ' " | | | |
| | ☉ 17 | 6 04 29 | Palilicii | 58 40 40 | 5 52 12 | —12 17 | | | |
| | | 07 38 | | 58 11 50 | 55 24 | —12 14 | | | |
| | | 09 58 | | 57 51 00 | 57 42 | —12 16 | | | |
| | | 12 13 | | 57 30 50 | 59 57 | —12 16 | | | |
| | | 14 20 | | 57 11 50 | 6 02 04 | —12 16 | | | |

| Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h ' " | Tempora ex Altitudinibus Correcta. h ' " | LUNÆ DISTANTIÆ à FIXIS. Dist. à Vert. ° ' " | Hora supp. h ' " | Err. Horol. ' " | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. | Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|---|---|---|
| ♂ Dec. 26 | 5 30 20 | | 58 30 50 | 5 13 41 | —16 39 | | | | | |
| | 32 32 | | 58 11 20 | 15 51 | —16 41 | | | | | |
| | 34 46 | Palilicii | 57 51 00 | 18 07 | —16 39 | | | | | |
| | 36 54 | | 57 32 10 | 20 12 | —16 42 | | | | | |
| | 39 14 | | 57 11 30 | 22 31 | —16 43 | | | | | |
| | 54 41 | 5 38 00 | Lunæ limb. rem. à Palilicio | | | 53 41 20 | 1285 | 55 | 53 40 57 | |
| | 58 26 | 41 45 | ——— rep. | | | 53 39 25 | 1284 | 91 | 53 39 21 | |
| | 6 03 16 | 46 35 | Lunæ limb. prox. à Capite Andromedæ ——— | | | 30 33 20 | 731 | 48 | 30 33 22 | |
| | 04 53 | 48 12 | ——— rep. | | | 30 33 20 | 731 | 48 | 30 33 22 | ☽ in ♈ [illegible] Lat. Aust. 5 |
| | 08 21 | 51 40 | Lunæ limb. rem. à Palilicio | | | 53 36 00 | 1283 | 44 | 53 35 40 | |
| | 10 13 | 53 32 | ——— rep. | | | 53 35 10 | 1283 | 20 | 53 35 04 | |
| | 15 19 | 58 38 | Palilicium à Capite Andromedæ ——— | | | 62 08 45 | 1488 | 85 | 62 09 09 | |
| | | | Dist. à Vert. ° ' " | Hor. supput. h ' " | Err. Horol. ' " | | | | | |
| ♀ 29 | 5 43 19 | | 54 51 10 | 5 25 15 | —18 04 | | | | | |
| | 45 36 | | 54 31 10 | 27 33 | —18 03 | | | | | |
| | 48 03 | Palilicii | 54 09 40 | 30 00 | —18 03 | | | | | |
| | 50 14 | | 53 50 40 | 32 12 | —18 02 | | | | | |
| | 52 32 | | 53 30 50 | 34 26 | —18 06 | | | | | |
| | 6 16 52 | 5 58 48 | Lunæ limb. rem. à Palilicio | | | 15 08 50 | 362 | 78 | 15 08 46 | |
| | 18 23 | 6 00 19 | ——— rep. | | | 15 08 25 | 362 | 59 | 15 08 18 | |
| | 24 58 | 06 54 | Lunæ limb. rem. ab Algol — | | | 28 34 20 | 683 | 92 | 28 34 09 | |
| | 26 51 | 08 47 | ——— rep. | | | 28 34 05 | 683 | 84 | 28 33 57 | ☽ in ♉ 20°½ Lat. Aust. 5½ |
| | 30 11 | 12 07 | Lunæ limb. rem. à Palilicio | | | 15 03 10 | 360 | 51 | 15 03 06 | |
| | 31 48 | 13 44 | ——— rep. | | | 15 02 30 | 360 | 26 | 15 02 28 | |
| Anno Christi MDCLXXXIII. | | | | | | | | | | |
| | | | Dist. à Vert. ° ' " | Hora supput. h ' " | Err. Horol. ' " | | | | | |
| ♂ Jan. 2 | 5 16 16 | | 56 31 10 | 4 56 40 | —19 36 | | | | | |
| | 18 36 | | 56 10 40 | 58 58 | —19 38 | | | | | |
| | 20 48 | Palilicii | 55 51 00 | 5 01 12 | —19 36 | | | | | |
| | 23 05 | | 55 31 00 | 03 27 | —19 38 | | | | | |
| | 25 18 | | 55 11 10 | 05 43 | —19 35 | | | | | |
| | | | *Sequente Jovis 4 mane, Reduxi Indices horologiorum 11', & demisi perpendicula, ut tempora posthac tardiora & æqualia propius ostenderent.* | | | | | | | |
| | | | Dist. à Vert. ° ' " | Hora supp. h ' " | Err. Horol. ' " | | | | | |
| ☿ 24 | 6 15 16 | | 52 01 40 | 5 58 50 | —16 26 | | | | | |
| | 17 28 | Pollucis | 51 41 20 | 6 01 00 | —16 28 | | | | | |
| | 19 35 | | 51 21 00 | 03 10 | —16 25 | | | | | |
| | 33 04 | 6 16 39 | Lunæ limb. rem. à lucida Arietis ——— | | | 15 58 25 | 382 | 53 | 15 58 12 | |
| | 34 23 | 18 08 | ——— rep. | | | 15 58 25 | 382 | 52 | 15 58 10 | ☽ in ♉ 3° Lat. Aust. 5¼ |
| | 37 43 | 21 18 | Lunæ limb. rem. à Palilicio | | | 32 34 20 | 779 | 65 | 32 33 58 | |
| | 39 33 | 23 08 | ——— rep. | | | 32 33 20 | 779 | 28 | 32 33 03 | |

| ANNO CHRISTI 1683. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | *LUNÆ* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Jan. 24 | 6 42 21 | 6 25 56 | Lucida Arietis à Palilicio — | 35 32 25 | 850 92 | 35 32 13 |
| | 44 07 | 27 42 | ——— rep. | 35 32 20 | 850 90 | 35 32 10 |
| | 46 36 | 30 11 | Lunæ limb. rem. à lucida Arietis ——— | 15 57 45 | 382 30 | 15 57 37 |
| | 47 57 | 31 32 | ——— rep. | 15 57 40 | 382 27 | 15 57 33 |
| | 49 47 | 33 22 | Lunæ limb. prox. à lucida Arietis ——— | 15 26 50 | 369 99 | 15 26 50 |
| | 51 18 | 34 53 | ——— rep. | 15 26 45 | 369 97 | 15 26 46 |
| ♀ 26 | 5 55 14 | 5 38 22 | Lunæ limb. remot. à Palilicio | 07 04 50 | 169 41 | 07 04 44 |
| | 58 06 | 41 14 | ——— rep. | 07 03 35 | 168 88 | 07 03 24 |
| | 6 02 10 | 45 18 | Lunæ limb. prox. à lucida Plejadum ——— | 09 56 10 | 237 77 | 09 55 55 |
| ☽ in ♉ 28°½ Lat. Aust. 5½ | 04 10 | 47 18 | ——— rep. | 09 56 20 | 237 85 | 09 56 07 |
| | 06 42 | 49 50 | Lunæ limb. remot. à Palilicio | 07 00 15 | 167 56 | 07 00 06 |
| | 08 37 | 51 45 | ——— rep. | 06 59 15 | 167 22 | 06 59 13 |
| | 11 10 | 54 18 | Palilicium à lucida Plejadum ——— | 13 38 50 | 326 85 | 13 38 52 |
| | | | *Dist. à vert.* ° ′ ″ \| *Hora supp.* h. ′ ″ \| *Err. Horol.* ′ ″ | | | |
| | 9 07 50 | | 58 09 30 \| 8 50 56 \| — 16 54 | | | |
| | 09 58 | | 57 50 50 \| 53 06 \| — 16 52 | | | |
| | 12 13 | Reguli | 57 31 10 \| 55 21 \| — 16 52 | | | |
| | 14 30 | | 57 11 00 \| 57 39 \| — 16 51 | | | |
| | 16 52 | | 56 50 40 \| 9 00 00 \| — 16 52 | | | |
| | | | *Occultatio primæ Hyadum cujus Tychoni locus ♊ 1° 20′⅓, Lat. Aust. 5° 46′½.* | | | |
| | | | | *Part. per Mic.* | ′ ″ | |
| | 11 48 00 | 11 31 08 | Lunæ Diameter ——— | 6312 | = 31 29 | |
| | 50 34 | 33 42 | ——— rep. | 6292 | = 31 23 | |
| | 52 50 | 35 58 | Lunæ Cuspis verè Australis à prima Hyadum ——— | 3117 | = 15 33 | |
| | 54 14 | 37 22 | ——— rep. | 3010 | = 15 01 | |
| | 59 46 | 42 54 | Immersio à Cuspide Austr. —— | 2530 | = 12 37 | |
| | 12 49 48 | 12 32 56 | Emersio ——— | | | |
| *Vide Fig. 132.* | 51 04 | 34 12 | Fixa ab eadem Cuspide —— | 3400 | = 16 58 | |
| | 53 06 | 36 14 | ——— rep. | 3618 | = 18 03 | |
| | 54 18 | 37 26 | ——— iter. | 3740 | = 18 40 | |
| | 55 50 | 38 58 | Stella à limbo lucido ——— | 566 | = 02 49 | |
| | 57 20 | 40 28 | ——— iter. | 716 | = 03 34 | |
| | 58 58 | 42 06 | Stella à Cuspide ——— rep. | 4270 | = 21 18 | |
| | 13 00 50 | 43 58 | ——— iter. | 4392 | = 21 55 | |
| | | | *Punctum quod Cuspidem appello, à vera Cuspide plus Diametro Jovis distare videbatur, tantum enim spatium illum inter, & limbum integrum apparuit. Ejus à Cuspide verâ pone Distantiam 1 minut. si calculus permiserit.* | | | |

| Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium (h ′ ″) | Tempora ex Altitudinibus Correcta (h ′ ″) | Lunæ Distantiæ à Fixis | | | | Distantiæ per lineas diagonales (° ′ ″) | Distantiæ per Cochleæ Revolutiones: Revol. Cent. | cum Circuli partibus Respondentibus (° ′ ″) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Part. per Mic. | | ′ ″ | | | | |
| ☿ Feb. 1. | 9 48 42 | 9 31 22 | ☽ Diam. | 6820 | | =34 01 | | | | |
| | 51 44 | 34 24 | rep. | 6800 | | =33 55 | | | | |
| | | | | Part. per Mic. | | ′ ″ | | | | |
| ♀ 2 | 8 41 14 | 8 23 44 | ☽ Diam. | 6737 | | = 33 36 | | | | |
| | 44 08 | 26 38 | rep. | 6729 | | = 33 34 | | | | |
| | | | | Dist. a Vert. (° ′ ″) | Hora supp. (h ′ ″) | Err. Horol. (′ ″) | | | | |
| ☉ 25 | 8 03 43 | Reguli | | 51 01 10 | 7 47 28 | —16 15 | | | | |
| | 06 15 | | | 50 41 00 | 50 02 | —16 13 | | | | |
| | 08 56 | | | 50 20 00 | 52 43 | —16 13 | | | | |
| | 32 05 | 8 15 52 | Lunæ limb. prox. à Cornu Tauri Boreo | | | | 19 43 00 | 472 25 | 19 43 05 | |
| | 34 11 | 17 58 | rep. | | | | 19 43 55 | 472 71 | 19 44 13 | |
| | 38 32 | 22 19 | Lunæ limb. remot. à Castore | | | | 17 11 00 | 411 68 | 17 11 12 | |
| | 41 37 | 25 24 | rep. | | | | 17 09 | 411 30 | 17 10 15 | ☽ in ♋ 6° Lat. Aust. 3½. |
| | 45 33 | 29 29 | Lunæ limb. prox. à Cornu Tauri Boreo | | | | 19 48 00 | 474 31 | 19 48 15 | |
| | 47 17 | 31 04 | rep. | | | | 19 48 40 | 474 57 | 19 48 54 | |
| | 51 45 | 35 32 | Castor à Cornu Tauri Boreo | | | | 27 48 45 | 666 07 | 27 49 27 | |
| | | | | Dist. a Vert. (° ′ ″) | Hora supp. (h ′ ″) | Err. Horol. (′ ″) | | | | |
| ♄ Mar. 3 | 7 43 02 | Reguli | | 50 41 00 | 7 28 05 | —14 57 | | | | |
| | 45 40 | | | 50 20 10 | 30 45 | —14 55 | | | | |
| | 48 12 | | | 50 00 40 | 33 15 | —14 57 | | | | |
| | | | | Part. per Mic. | | ′ ″ | | | | |
| | 55 12 | 7 40 17 | ☽ Diam. | 6661 | | =33 13 | | | | |
| | 59 26 | 44 31 | rep. | 6648 | | =33 10 | | | | |
| | 9 50 12 | 9 35 17 | Lunæ limb. prox. ab Arcturo | | | | 29 51 45 | 714 82 | 29 51 32 | |
| | 52 09 | 37 14 | rep. | | | | 29 51 20 | 714 64 | 29 51 05 | |
| | 56 41 | 41 46 | Lunæ limb. prox. à Cauda Leonis | | | | 21 18 00 | 510 02 | 21 18 02 | |
| | 59 02 | 44 07 | rep. | | | | 21 19 05 | 510 47 | 21 19 09 | |
| | 10 03 08 | 48 13 | Lunæ limb. prox. ab Arcturo | | | | 29 49 25 | 713 87 | 29 49 09 | |
| | 05 25 | 50 30 | rep. | | | | 29 48 45 | 713 58 | 29 48 25 | |
| | 10 27 | 55 32 | Lunæ limb. remot à Regulo | | | | 41 36 40 | 996 38 | 41 36 29 | |
| | | | | Dist. a Vert. (° ′ ″) | Hora supp. (h ′ ″) | Err. Horol. (′ ″) | | | | |
| | 20 43 43 | Limbi Solis inferioris | | 70 07 50 | 20 28 58 | —14 45 | | | | |
| | 45 56 | | | 69 50 30 | 31 10 | —14 46 | | | | |
| | 48 22 | | | 69 31 30 | 33 35 | —14 47 | | | | |
| | | | | (° ′ ″) | | | | | | |
| ☽ 19 vel ♂ 20 mane | 20 22 34 | Limbi Solis inferioris | | 67 11 10 | | | | | | |
| | 24 56 | | | 66 50 40 | | | | | | |
| | 27 20 | | | 66 31 00 | | | | | | |
| | 29 40 | | | 66 11 00 | | | | | | |
| | 32 06 | | | 66 50 40 | | | | | | |
| ♃ 22 | | | *Observatus Lunæ Transitus supra Palilicium Tubo pedum 16, vento flante validissimo.* | | | | | | | |

| Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♃ Mar. 22 | 7 28 45 | 7 19 10 | Lunæ limb. obſcur. à Stella circiter | Part. per Micr. 3825 | ′ ″ = 19 05 | |
| | 45 04 | 35 29 | Lunæ Cuſpis Auſtr. à Stella | 4218 | = 21 02 | |
| | 48 42 | 39 07 | Lunæ limb. obſcur. à Stella | 1815 | = 09 03 | |
| | 51 40 | 42 05 | Lunæ Cuſpis Auſtr. à Stella | 3580 | = 17 52 | |
| | 57 00 | 47 25 | rep. | 3111 | = 15 31 | |
| | 8 01 00 | 51 25 | Lunæ limb. obſcur. à Stella | 1095 | = 05 28 | |
| | 30 30 | 8 20 55 | Stella in Linea per Cuſpides à proximo brevi poſteà | 364 | = 01 49 | |
| | 30 50 | 21 15 | Lineam ſupergreſſa eſt | | | |
| | | | *Diſtantiæ haud valdè accuratæ, propter Tubi Agitationem.* | | | |
| | | | Iſlingtoniæ D. Halley *Stellam in linea per Cuſpides notavit* 8h 20′ 20″ | | | |
| | | | *Diſt. à Vert.* ° ′ ″ \| *Hora ſupp.* h ′ ″ \| *Err. Horolog.* ′ ″ | | | |
| | 20 23 05 | Limbi Solis inferioris | 66 01 30 \| 20 13 39 \| — 9 26 | | | |
| | 25 26 | | 65 41 50 \| 15 58 \| — 9 28 | | | |
| | 27 45 | | 65 22 10 \| 18 17 \| — 9 28 | | | |
| ♀ 23 | 8 30 21 | 8 21 02 | Lunæ limb. rem. à Calce Caſtoris | 13 09 00 | 314 90 | 13 08 58 |
| | 32 12 | 22 53 | rep. | 13 08 05 | 314 54 | 13 08 05 |
| | 33 56 | 24 37 | Calx ab ultima trium informium infra Cornu Tauri Auſtrinum in Antecedentia, *tunc nubes* | 12 30 10 | 299 50 | 12 30 25 |
| | 49 58 | 40 39 | Humerus Orionis ſeq. ab eadem Fixa, nunc juxta Lunam | 12 30 30 | 299 55 | 12 30 33 |
| | 52 32 | 43 14 | Immerſio ejuſdem Fixæ | | | |
| | 53 39 | 44 21 | Lunæ limb. remot. ab eodem humero Orionis | 12 57 20 | 310 20 | 12 57 12 |
| | 55 27 | 46 09 | rep. | 12 57 20 | 310 17 | 12 57 05 |
| | 59 16 | 49 58 | Lunæ limb. remot. à Calce Caſtoris | 12 55 50 | 309 60 | 12 55 42 |
| | 9 01 18 | 52 00 | rep. | 12 54 55 | 309 30 | 12 54 57 |
| | 03 23 | 54 05 | Fixa priori adjacens à Calce | 12 13 50 | 292 94 | 12 14 00 |
| | 06 16 | 56 58 | Calx Caſtoris ab humero dicto Orionis | 16 31 05 | 395 76 | 16 31 21 |
| | 16 34 | 9 07 16 | Lunæ limb. prox. à Palilicio | 13 15 30 | 317 59 | 13 15 42 |
| | 19 00 | 09 42 | rep. | 13 16 50 | 318 08 | 13 16 55 |
| | 33 46 | 24 28 | Immerſio Fixæ adjacentis | | | |
| | | | ☽ Diam. \| Part. per Mic. 6280 \| = ′ ″ 31 20 | | | |
| | 43 04 | 33 46 | | | | |
| | 52 26 | 43 08 | Emerſerat prima Fixa pone Emerſionem 9h 52′ 20″ per horolog. | | | |
| | 53 38 | 44 20 | Aberat à Cuſpide vere Auſtr. *A Limbo ſeſquidiametro Jovis* | Part. per Micr. 3785 | ′ ″ = 18 53 | |
| | 56 22 | 47 04 | Lunæ limb. prox. à Fixa | 381 | = 01 54 | |
| | 59 00 | 49 42 | rep. | 635 | = 03 10 | |
| | 10 03 38 | 9 54 20 | Lunæ Diameter *T. F.* | 6295 | = 31 24 | |

| Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♄ Mar. 24 | 8 14 04 | 8 05 04 | Lunæ limb. remot. à Jove — | 40 47 55 | 977 31 | 40 48 39 | |
| | 16 07 | 07 07 | ——— rep. | 40 46 55 | 976 95 | 40 47 45 | |
| | | | *Per Nubes Albicantes Fixas enim videre non licuit.* | | | | |
| ☽ 26 | 7 54 09 | 7 45 45 | Lunæ limb. prox. à Polluce - | 13 16 10 | 317 80 | 13 16 13 | |
| | 56 19 | 47 55 | ——— rep. | 13 17 05 | 318 17 | 13 17 09 | |
| | 8 01 01 | 52 37 | Lunæ limb. rem. à lucida in Cervice Leonis ——— | 27 48 45 | 666 07 | 27 49 27 | |
| | 02 26 | 54 02 | *Luna in Nonagesimo.* rep. | 27 48 05 | 665 80 | 27 48 46 | ☽ in ♋ 29°½ Lat. Aust. 1⅓. |
| | 03 42 | 55 18 | ——— iter. | 27 47 35 | 665 62 | 27 48 20 | |
| | 07 46 | 59 22 | Lunæ limb. prox. à Polluce - | 13 20 50 | 319 64 | 13 20 51 | |
| | 09 16 | 8 00 52 | ——— rep. | 13 21 20 | 319 85 | 13 21 22 | |
| | 14 32 | 06 08 | Pollux à lucida in Cervice Leonis ——— | 36 02 00 | 862 88 | 36 02 09 | |
| ♂ 27 | 9 15 24 | 9 07 19 | Lunæ limb. rem. à lucida in Capite Leonis ε ——— | 10 30 40 | 251 66 | 10 30 42 | |
| | 17 11 | 09 06 | ——— rep. | 10 30 40 | 251 67 | 10 30 44 | |
| | 21 34 | 13 29 | Lunæ limb. rem. à Regulo - | 11 08 40 | 266 87 | 11 08 45 | ☽ in ♌ 14°⅚ Lat. Aust. 0⅔. |
| | 23 04 | 14 59 | ——— rep. | 11 08 20 | 266 72 | 11 08 22 | |
| | 27 18 | 19 13 | Lunæ limb. rem. ab ε Leonis | 10 30 10 | 251 46 | 10 30 12 | |
| | 29 05 | 21 00 | ——— rep. | 10 30 00 | 251 38 | 10 30 00 | |
| | 30 38 | 22 33 | Lunæ limb. proxim. ab ε Leonis ——— | 09 56 40 | 238 11 | 09 56 46 | |
| *vel* | 35 17 | 27 12 | Lunæ limb. rem. à Regulo - | 11 02 50 | 264 42 | 11 02 38 | |
| | 37 13 | 29 08 | ——— rep. | 11 01 50 | 263 98 | 11 01 32 | |
| | | | *Vide Distantiam ε Leonis à Regulo inter Observata* Jan. 24. 1683. *sub Saturno.* | | | | |
| | | | Dist. à Vert. ° ′ ″ · Hora supput. h ′ ″ · Err. Horol. ′ ″ | | | | |
| | 20 35 21 | Limbi Solis inferioris | 62 31 30 · 8 27 24 · — 7 57 | | | | |
| ☿ 28 *mane* | 37 41 | | 62 11 50 · 29 45 · — 7 56 | | | | |
| | 40 06 | | 61 51 50 · 32 09 · — 7 57 | | | | |
| | 42 41 | | 61 30 50 · 34 41 · — 8 00 | | | | |
| | 44 58 | | 61 11 30 · 37 02 · — 7 56 | | | | |
| ☿ 28 | 10 39 08 | 10 31 21 | Lunæ limb. prox. à Regulo - | 04 13 10 | 101 06 | 04 13 21 | |
| | 41 31 | 33 44 | *Luna in Nonagesimo* rep. | 04 14 10 | 101 44 | 04 14 20 | |
| | 46 27 | 38 40 | Lunæ limb. prox. à lucida in Cervice Leonis ——— | 08 59 40 | 215 21 | 08 59 27 | |
| | 49 08 | 41 21 | ——— rep. | 09 00 10 | 215 50 | 09 00 12 | ☽ in ♍ 0° Lat. Bor. 0⅝ |
| | 52 56 | 45 09 | Lunæ limb. prox. à Regulo - | 04 19 30 | 103 64 | 04 19 51 | |
| | 54 48 | 47 01 | ——— rep. | 04 20 30 | 104 00 | 04 20 45 | |
| | 58 47 | 51 00 | Lunæ limb. prox. à Cervice Leonis ——— | 09 02 35 | 216 48 | 09 02 39 | |
| | 11 01 34 | 53 47 | ——— rep. | 09 03 30 | 216 87 | 09 03 38 | |
| ♃ 29 | 13 32 40 | 13 25 12 | Lunæ limb. prox. à Regulo | 20 37 35 | 494 08 | 20 38 01 | |
| | 35 25 | 27 58 | ——— rep. | 20 38 45 | 494 57 | 20 39 15 | |
| | 42 21 | 34 53 | Lunæ limb. prox. à Cauda Leonis ——— | 10 02 45 | 240 57 | 10 02 57 | ☽ in ♍ 16°½ Lat. Bor. 2 |
| | 45 37 | 38 09 | ——— rep. | 10 02 35 | 240 53 | 10 02 51 | |
| | 49 54 | 42 26 | Lunæ limb. prox. à Regulo - | 20 46 25 | 497 60 | 20 46 54 | |
| | 51 30 | 13 44 02 | ——— rep. | 20 47 05 | 497 97 | 20 47 51 | |

| | Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ♀ Mar. 30 | 12 58 23 | 12 51 11 | Lunæ limb. rem. ab Arcturo | 33 23 20 | 799 36 | 33 23 16 |
| | | 13 00 04 | 52 52 | ——— rep. | 33 23 05 | 799 21 | 33 22 54 |
| ☽ in ♎ 1° Lat. Bor. 2½ | | 05 39 | 58 27 | Lunæ limb. remot. à Spica Virginis ——— | 19 16 55 | 461 85 | 19 16 57 |
| | | 08 16 | 13 01 04 | ——— rep. | 19 15 45 | 461 40 | 19 15 50 |
| | | 11 07 | 03 55 | *Luna in Nonagesimo* iter. | 19 14 25 | 460 83 | 19 14 22 |
| | | 14 37 | 07 25 | Lunæ limb. prox. à Regulo – | 35 31 25 | 850 62 | 35 31 28 |
| | | 15 56 | 08 44 | ——— rep. | 35 31 50 | 850 82 | 35 31 58 |
| | | 20 18 | 13 06 | Lunæ limb. rem. ab Arcturo | 33 18 05 | 797 26 | 33 18 02 |
| | | 21 33 | 14 21 | ——— rep. | 33 17 55 | 797 30 | 33 18 07 |
| | | 25 13 | 18 01 | Arcturus à Spica Virginis — | 32 58 35 | 789 54 | 32 58 44 |
| | | 27 40 | 20 28 | ——— rep. | 32 58 30 | 789 56 | 32 58 47 |
| | ☽ Apr. 2 | 11 03 38 | 10 57 13 | Lunæ limb. prox. à lucida in Collo Serpentis ——— | 21 07 25 | 505 89 | 21 07 39 |
| | | 05 09 | 58 44 | ——— rep. | 21 07 25 | 505 87 | 21 07 36 |
| | | 08 04 | 11 02 39 | Lunæ limb. rem. à Spica Virginis ——— | 26 15 15 | 628 49 | 26 15 10 |
| | | 09 36 | 03 11 | ——— rep. | 26 15 50 | 628 72 | 26 15 45 |
| | | | | *Lunæ Distantiam à lucida in Collo Serpentis propter nubes mox sub Cœlo sparsas iterare non licuit.* | | | |
| | ♂ 3 vel ☿ 4 mane | 15 40 29 | 15 34 20 | Lunæ limb. rem. ab ultima in Capite Sagittarii ——— | 40 47 25 | 976 98 | 40 47 50 |
| | | 42 25 | 36 16 | ——— rep. | 40 46 40 | 976 66 | 40 47 02 |
| | | | | *Luna in Nonagesimo*, 15h 39½′ *veré.* | | | |
| ☽ in ♐ 1°½ Lat. Bor. 4. | | 47 50 | 41 42 | Lunæ limb. rem. à Yed Ophiuchi ——— | 14 00 55 | 335 65 | 14 00 55 |
| | | 50 08 | 44 00 | ——— rep. | 14 01 20 | 335 77 | 14 01 13 |
| | | 56 16 | 50 08 | Lunæ limb. rem. ab ultima in Capite Sagittarii ——— | 40 40 55 | 974 30 | 40 41 07 |
| | | 59 20 | 53 12 | ——— rep. | 40 39 35 | 973 74 | 40 39 42 |
| | | 16 02 31 | 15 56 23 | Ultima in Capite Sagittarii ab Ophiuchi Yed ——— | 45 58 30 | 1100 84 | 45 58 10 |
| | | | | *Dist. à Vert.* ° ′ ″ \| *Hora suppus.* h ′ ″ \| *Err. Horol.* ′ ″ | | | |
| | | 20 06 21 | Limbi Solis inferioris | 64 21 00 \| 20 00 16 \| — 6 05 | | | |
| | | 08 33 | | 64 01 30 \| 02 28 \| — 6 05 | | | |
| | | 10 56 | | 63 40 30 \| 04 51 \| — 6 05 | | | |
| | | 13 10 | | 63 20 50 \| 07 03 \| — 6 05 | | | |
| | ☿ 11 vel ♃ 12 mane | 21 33 07 | 21 28 55 | Lunæ limb. prox. à Solis rem. | 49 50 10 | 1193 14 | 49 49 30 |
| | | 34 22 | 30 10 | ——— rep. | 49 48 40 | 1193 00 | 49 49 09 |
| | | 35 49 | 31 37 | ——— iter. | 49 48 15 | 1192 77 | 49 48 35 |
| ☽ in ♓ 13° Lat. Aust. 3½ | | 37 40 | 33 28 | Lunæ limb. prox. à Solis proximo ——— | 49 16 10 | 1179 83 | 49 16 12 |
| | | 39 31 | 35 19 | ——— rep. | 49 15 40 | 1179 63 | 49 15 42 |
| | | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h ′ ″ \| *Err. Horol.* ′ ″ | | | |
| | ♄ 14 | 20 02 43 | Sol. limbi inferioris | 61 32 00 \| 19 59 03 \| — 3 40 | | | |
| | | 05 00 | | 61 11 10 \| 20 01 22 \| — 3 38 | | | |
| | | 07 16 | | 60 51 20 \| 03 34 \| — 3 42 | | | |
| | | 09 31 | | 60 31 00 \| 05 51 \| — 3 40 | | | |
| | | 11 46 | | 60 11 00 \| 08 05 \| — 3 41 | | | |

| Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ ″ · Hora supput. h ′ ″ · Err. Horol. ′ ″ | | | | |
| ☿ Apr. 20 | 20 01 03 | | 60 10 00 · 19 58 27 · — 2 36 | | | | |
| | 03 13 | Limbi | 59 50 40 · 20 00 35 · — 2 38 | | | | |
| | 05 20 | Solis in- | 59 31 20 · 02 43 · — 2 37 | | | | |
| | 07 33 | ferioris | 59 11 40 · 04 54 · — 2 39 | | | | |
| | 09 50 | | 58 51 10 · 07 11 · — 2 39 | | | | |
| ♄ 21 | 8 59 05 | 8 56 30 | Lunæ limb. rem. à Regulo – | 43 08 15 | 1033 03 | 43 08 16 | |
| | 9 02 10 | 59 35 | rep. | 43 06 50 | 1032 43 | 43 06 46 | |
| | 06 39 | 9 04 04 | Lunæ limb. prox. à manu Castoris θ | 14 53 15 | 356 55 | 14 53 17 | ☽ in ♋ 12°½. Lat. Aust. 2¼ |
| | 08 49 | 06 14 | rep. | 14 53 45 | 356 82 | 14 53 53 | |
| | 13 36 | 11 01 | Lunæ limb. rem. à Regulo – | 43 00 40 | 1030 04 | 43 00 48 | |
| | 15 45 | 13 10 | rep. | 42 59 20 | 1029 53 | 42 59 30 | |
| | | | *Reguli Occultatio.* | Part. per Mic. | ′ ″ | | |
| ♂ 24 | 9 46 24 | 9 44 02 | Lunæ Cuspis veré Australior à Regulo | 3643 | = 18 10 | | |
| | 53 16 | 50 54 | rep. | 2975 | = 14 51 | | |
| | 10 01 24 | 59 02 | Immersio à Cuspide | 2220 | = 11 04 | | |
| | 20 50 | 10 18 28 | Lunæ Diameter | 6544 | = 32 39 | | |
| | 46 56 | 44 34 | Emersio Reguli | | | | |
| | 48 18 | 45 56 | Regulus à dicta Cuspide | 2729 | = 13 37 | | |
| | | | à Limbo Jovis Diameter | | = 00 50 | | |
| | 52 24 | 50 02 | Regulus à Cuspide | 3153 | = 15 44 | | |
| | | | *Diametri Mensura videbatur potius justo parum Arctior.* | | | | |
| | | | Dist. à Vert. ° ′ ″ · Hora supput. h. ′ ″ · Err. Horol. ′ ″ | | | | |
| ♃ 26 | 19 40 36 | | 61 51 40 · 19 38 29 · — 2 07 | | | | |
| | 42 46 | Limbi | 61 31 50 · 40 38 · — 2 08 | | | | |
| | 44 53 | Solis in- | 61 11 50 · 42 47 · — 2 06 | | | | |
| | 47 09 | ferioris | 60 51 20 · 45 01 · — 2 08 | | | | |
| | 49 24 | | 60 30 40 · 47 16 · — 2 08 | | | | |
| ♀ 27 | 9 25 42 | 9 23 35 | Lunæ limb. prox. à lucida in Cervice Leonis | 43 10 10 | 1033 70 | 43 09 57 | |
| | 28 17 | 26 10 | rep. | 43 11 25 | 1034 12 | 43 11 00 | ☽ in ♎ 8°½ Lat. Bor. 3½ |
| | 31 43 | 29 36 | Lunæ limb. rem. ab Arcturo | 29 35 25 | 708 57 | 29 35 53 | |
| | 33 21 | 31 14 | rep. | 29 35 25 | 708 52 | 29 35 45 | |
| | 36 15 | 34 08 | Lunæ limb. prox. à lucida in Cervice Leonis | 43 15 30 | 1035 64 | 43 14 50 | |
| | 38 36 | 36 29 | rep. | 43 16 20 | 1035 97 | 43 15 39 | |
| | | | Dist. à Vert. ° ′ ″ · Hora supputat. h. ′ ″ · Err. Horol. ′ ″ | | | | |
| ☽ Maii 21 | 20 24 14 | Limbi | 51 21 20 · 20 21 12 · — 3 02 | | | | |
| | 26 26 | Solis in- | 51 01 50 · 23 22 · — 3 04 | | | | |
| | 28 41 | ferioris | 50 41 20 · 25 38 · — 3 03 | | | | |
| ♂ 22 | 9 24 11 | 9 21 06 | Lunæ limb. rem. à Spica Virginis | 44 00 50 | 1053 99 | 44 00 48 | |
| | 28 51 | 25 46 | rep. | 43 59 30 | 1053 30 | 43 59 03 | |

| | Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitudinibus Correcta h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas Diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|---|
| | ♂ Maij 22 | 9 37 45 | 9 34 40 | Lunæ limb. rem. à luc. in Lumbis Leonis | 12 56 55 | 310 09 | 12 56 55 |
| ☽ in ♍ 6 Lat. Bor. 1½. | | 40 46 | 37 41 | rep. à Leonis ♌ | 12 56 50 | 310 05 | 12 56 50 |
| | | 48 10 | 45 05 | Lunæ limb. rem. à Spica Virginis | 43 48 40 | 1049 14 | 43 48 39 |
| | | 50 20 | 47 15 | rep. | 43 47 50 | 1048 65 | 43 47 24 |
| | ♄ Jun. 14 | | | Dist. à Vert. ° ' " ; Hora supp. h ' " ; Err. Horol. ' " | | | |
| | | 19 13 43 | Limbi Solis inferioris | 61 41 20 ; 19 07 53 ; — 5 50 | | | |
| | | 15 53 | | 61 21 00 ; 10 04 ; — 5 49 | | | |
| | | 17 57 | | 61 01 40 ; 12 08 ; — 5 49 | | | |
| | | 20 06 | | 60 41 50 ; 14 15 ; — 5 51 | | | |
| | | 22 17 | | 60 21 00 ; 16 29 ; — 5 48 | | | |
| | ♀ 22 | 9 54 01 | 9 47 26 | Lunæ limb. rem. à Lance Borea Libræ | 16 10 25 | 387 40 | 16 10 24 |
| | | 57 41 | 51 06 | Lunæ limb. rem. à Lance Borea Libræ rep. | 16 09 00 | 386 81 | 16 08 55 |
| ☽ in ♎ 29°½ Lat. Bor. 4⅓ | | 10 03 28 | 56 53 | Lunæ limbus proximus, & quæ præcedit Arcturum Bootis η. | 27 20 20 | 654 45 | 27 20 21 |
| | | 07 39 | 10 01 04 | rep. | 27 21 20 | 654 86 | 27 21 22 |
| | | 13 24 | 06 49 | Lunæ limbus rem. à Lance Borea Libræ. | 16 02 05 | 384 10 | 16 02 09 |
| | | 15 41 | 09 06 | rep. | 16 01 00 | 383 65 | 16 01 02 |
| | | | | Dist. à Vert. ° ' " ; Hora supp. h ' " ; Err. Horol. ' " | | | |
| | | 20 03 46 | Sol. limbi inferioris. | 54 21 40 ; 19 57 07 ; — 6 39 | | | |
| | | 05 57 | | 54 01 30 ; 59 18 ; — 6 39 | | | |
| | | 08 10 | | 53 40 20 ; 20 01 36 ; — 6 34 | | | |
| | ☽ 25 | 9 52 20 | 9 45 30 | Lunæ limb. rem. ab Aquilæ lucida | 51 39 40 | 1237 19 | 51 39 54 |
| | | 54 12 | 47 22 | rep. | 51 39 00 | 1236 95 | 51 39 18 |
| ☽ in ♐ 10°½ Lat. Bor. 3½ | | 10 00 19 | 53 29 | Lunæ limb. prox. à Yed Ophiuchi | 18 18 05 | 438 27 | 18 17 51 |
| | | 02 35 | 55 45 | rep. | 18 18 40 | 438 53 | 18 18 30 |
| | | 06 52 | 10 00 02 | Lunæ limb. remot. ab Aquilæ lucida | 51 35 20 | 1235 43 | 51 35 29 |
| | | 09 05 | 02 15 | rep. | 51 34 30 | 1235 15 | 51 34 46 |
| | | 12 09 | 05 19 | Aquilæ lucida à Yed Ophiuchi | 55 19 05 | 1324 92 | 55 19 24 |
| | | 14 13 | 07 23 | rep. | 55 19 05 | 1324 92 | 55 19 24 |
| | ♂ 26 | 10 44 27 | 10 37 34 | Lunæ limb. prox. à Capite Ophiuchi | 33 28 20 | 801 27 | 33 28 03 |
| | | 47 37 | 40 44 | rep. | 33 28 35 | 801 36 | 33 28 17 |
| ☽ in ♐ 24° Lat. Bor. 2½ | | 51 17 | 44 24 | Lunæ limb. prox. à Borea in fronte Scorpii | 24 57 15 | 597 47 | 24 57 22 |
| | | 53 06 | 46 13 | *Luna in Nonagesimo* rep. | 24 58 05 | 597 76 | 24 58 06 |
| | | 58 20 | 51 27 | Lunæ limb. prox. à Capite Ophiuchi | 33 29 40 | 801 82 | 33 29 25 |
| | | 11 00 12 | 53 19 | rep. | 33 29 50 | 801 86 | 33 29 31 |
| | | 06 58 | 11 05 | Caput Ophiuchi à Borea in fronte Scorpii | 39 06 45 | 936 77 | 39 06 58 |

| Anno Christi 1683. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h ′ ″ | *Tempora ex Altitudinibus Correcta.* h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | *Distantia per lineas diagonales.* ° ′ ″ | *Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♂ Jun. 26 | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h ′ ″ \| *Err. Horol.* ′ ″ | | | | |
| | 20 24 22 | Limbi Solis inferioris | 51 31 30 \| 20 17 29 \| — 6 53 | | | | |
| | 26 38 | | 51 11 00 \| 19 44 \| — 6 54 | | | | |
| | 28 52 | | 50 51 20 \| 21 53 \| — 6 59 | | | | |
| ☿ 27 | 10 53 30 | 10 43 53 | Lunæ limb. prox. à Borea in Fronte Scorpii——— | 37 51 00 | 906 35 | 37 50 52 | |
| | 56 49 | 49 52 | ——— rep. | 37 52 00 | 906 79 | 37 51 58 | |
| ♀ 29 | 10 47 09 | 10 40 07 | Lunæ limb. rem. ab ult. in Capite Sagittarii ——— | 20 29 25 | 490 76 | 20 29 39 | |
| | 49 18 | 42 16 | ——— rep. | 20 30 00 | 490 97 | 20 30 12 | ☽ in ♓ 4½ Lat. Aust. 3 |
| | 53 57 | 46 55 | Lunæ limb. rem. ab Aquilæ lucida ——— | 30 26 10 | 728 58 | 30 26 05 | |
| | 55 45 | 48 43 | ——— rep. | 30 26 15 | 728 63 | 30 26 12 | |
| | | | *Dist. à Vert.* ° ′ ″ \| *Hor. supput.* h ′ ″ \| *Err. Horol.* ′ ″ | | | | |
| ☉ Julii 22 | 20 04 32 | | 58 10 50 \| 19 57 54 \| — 6 38 | | | | |
| | 06 39 | Limbi Solis inferioris | 57 51 40 \| 20 00 00 \| — 6 39 | | | | |
| | 08 58 | | 57 30 30 \| 02 19 \| — 6 39 | | | | |
| | 11 04 | | 57 11 50 \| 04 23 \| — 6 41 | | | | |
| | 13 21 | | 56 51 00 \| 06 40 \| — 6 41 | | | | |
| ☽ 23 | 9 18 31 | 9 11 26 | Lunæ limb. rem. ab ult. in Capite Sagittarii——— | 22 13 50 | 532 21 | 22 13 45 | |
| | 20 38 | 14 03 | ——— rep. | 22 13 10 | 531 91 | 22 13 00 | |
| | 25 50 | 19 15 | Lunæ limb. prox. à capite Herculis——— | 34 58 55 | 837 52 | 34 58 42 | ☽ in ♐ 20 Lat. Bor. 2⅓. |
| | 27 16 | 20 41 | ——— rep. | 34 59 05 | 837 60 | 34 58 54 | |
| | 31 08 | 24 33 | Lunæ limb. remot. à dicta Sagittarii π ——— | 22 09 00 | 530 32 | 22 09 00 | |
| | 32 40 | 26 05 | ——— rep. | 22 08 30 | 530 09 | 22 08 26 | |
| ♂ 24 | 8 55 49 | 8 49 24 | Lunæ limb. remot. à Yed. Ophiuchi ——— | 37 05 50 | 888 22 | 37 05 32 | |
| | 57 49 | 51 24 | ——— rep. | 37 06 30 | 888 44 | 37 06 05 | |
| | 9 03 40 | 57 15 | Lunæ limb. rem. ab Aquila— | 36 16 20 | 868 55 | 36 16 20 | ☽ in ♑ 2 Lat. Bor. 2 |
| | 05 44 | 59 19 | ——— rep. | 36 15 50 | 868 41 | 36 15 58 | |
| | 09 36 | 03 11 | Lunæ limbus proximus à Yed Ophuichi——— | 37 10 50 | 890 22 | 37 10 32 | |
| | 12 17 | 05 52 | ——— rep. | 37 11 50 | 890 58 | 37 11 25 | |
| ♀ 27 | 10 00 50 | 9 54 52 | Lunæ limb. prox. ab ult. in Capite Sagittarii π — | 28 15 35 | 676 41 | 28 15 21 | |
| | 02 29 | 56 31 | ——— rep. | 28 16 05 | 676 62 | 28 15 53 | |
| | | | *Distantiam ejus ab aliis Fixis metiri Nubes non permisere.* | | | | |
| ♂ 31 *vel* ☿ Aug. 1 *mane* | 15 15 05 | 15 09 52 | Lunæ limbus proximus à lucid. Arietis ——— | 35 59 30 | 861 81 | 35 59 27 | |
| | 18 53 | 13 40 | ——— rep. | 35 58 30 | 861 40 | 35 58 25 | |
| | 25 34 | 20 21 | Lunæ limbus rem. à Markab Pegasi——— | 26 57 55 | 645 46 | 26 57 45 | ☽ in ♈ 0 Lat. Aust. 5 |
| | 27 41 | 22 28 | ——— rep. | 26 58 15 | 645 58 | 26 58 05 | |

| Anno Christi. 1683. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ′ ″ | Hora Supput. h. ′ ″ | Err. Horol. ′ ″ | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|
| ☿ Aug. 1 mane | 15 33 48 | 15 28 35 | Lunæ limbus proximus à lucida Arietis | | | | 35 53 20 | 859 23 | 35 53 00 |
| | 35 36 | 30 23 | rep. | | | | 35 52 40 | 858 96 | 35 52 20 |
| | 19 46 11 | Limbi Solis inferioris. | | 62 41 00 | 19 41 02 | − 5 09 | | | |
| | 48 22 | | | 62 21 40 | 43 08 | − 5 14 | | | |
| | 50 31 | | | 62 01 30 | 45 20 | − 5 11 | | | |
| ♃ 1 | 24 28 15 | 14 23 28 | Lunæ limb. prox. à Palilicio | | | | 41 02 40 | 982 92 | 41 02 44 |
| | 30 41 | 25 54 | rep. | | | | 41 01 45 | 982 75 | 41 02 18 |
| ☽ in ♈ 23 Lat. Aust. 5½. | 37 24 | 32 37 | Lunæ limb. rem. à Mirach Andromedæ | | | | 32 06 25 | 768 46 | 32 06 00 |
| | 39 15 | 34 28 | rep. | | | | 32 06 10 | 768 39 | 32 05 50 |
| | 42 15 | 37 28 | Lunæ limb. prox. à Palilicio | | | | 40 57 45 | 980 89 | 40 57 37 |
| | 43 41 | 38 54 | rep. | | | | 40 57 20 | 980 57 | 40 56 50 |
| | 20 14 12 | Limbi Solis inferioris | | 58 51 30 | 20 09 28 | − 4 44 | | | |
| | 16 24 | | | 58 31 40 | 11 40 | − 4 44 | | | |
| | 18 40 | | | 58 11 30 | 13 56 | − 4 44 | | | |
| ☿ 22 | 20 11 29 | Limbi Solis inferioris | | 64 10 30 | 20 10 11 | − 1 18 | | | |
| | 13 41 | | | 63 51 00 | 12 27 | − 1 14 | | | |
| | 16 02 | | | 63 30 30 | 14 50 | − 1 12 | | | |
| ♃ 23 | 9 11 19 | 9 10 11 | Lunæ limb. prox. ab ult. in Capite Sagittarii ✶ | | | | 24 38 35 | 590 08 | 24 38 51 |
| | 14 12 | 13 04 | rep. | | | | 24 39 50 | 590 55 | 24 40 02 |
| | 17 34 | 16 26 | Lunæ limb. prox. ab Aquila | | | | 31 20 25 | 750 28 | 31 20 31 |
| ☽ in ♒ 6°½. Lat. Aust. 1. | 19 27 | 18 19 | rep. | | | | 31 20 35 | 750 37 | 31 20 45 |
| | 22 30 | 21 22 | Lunæ limb. prox. à Sagittarii ✶ | | | | 24 42 45 | 591 77 | 24 43 06 |
| | 24 04 | 22 56 | rep. | | | | 24 43 05 | 591 87 | 24 43 21 |
| | 26 21 | 25 13 | *iter. | | | | 24 44 05 | 592 30 | 24 44 25 |
| ☽ 27 | 13 51 47 | 13 51 17 | Lunæ limbus proximus à Lucida Arietis | | | | 39 23 15 | 943 27 | 39 23 18 |
| | 14 03 05 | 14 02 35 | rep. | | | | 39 21 50 | 942 77 | 39 22 01 |
| ☽ in ♓ 26°½. Lat. Aust. 4½. | 08 08 | 07 38 | Lunæ limb. remot. à Markab | | | | 25 21 55 | 607 30 | 25 22 01 |
| | 09 57 | 09 27 | rep. | | | | 25 22 10 | 607 37 | 25 22 12 |
| | 15 17 | 14 47 | Lunæ limbus proximus à Lucida Arietis | | | | 39 17 30 | 941 02 | 39 17 39 |
| | 16 28 | 15 58 | iter. | | | | 39 16 30 | 940 68 | 39 16 48 |
| ♄ Sept. 15 | 20 02 20 | Limbi Solis inferioris | | 72 31 10 | 20 04 36 | + 2 16 | | | |
| | 04 45 | | | 72 10 30 | 07 04 | + 2 19 | | | |
| | 07 13 | | | 71 50 40 | 09 26 | + 2 13 | | | |
| | 09 35 | | | 71 31 20 | 11 47 | + 2 12 | | | |
| | 12 01 | | | 71 11 10 | 14 13 | + 2 12 | | | |
| ♂ 18 | 8 13 58 | 8 16 10 | Lunæ limb. rem. à seq. in Cauda Capricorni | | | | 28 47 10 | 689 16 | 28 47 16 |
| | 16 47 | 18 59 | rep. | | | | 28 46 20 | 688 83 | 28 46 27 |

| Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium. | Tempora ex Altitudinibus Correcta. | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| | h. ′ ″ | h. ′ ″ | | ° ′ ″ | Revol. Cent. | ° ′ ″ | |
| ♂ Sept. 18 | 8 22 39 | 8 24 51 | Lunæ limb. prox. ab Australi in Cauda Aquilæ — | 36 02 30 | 862 89 | 36 02 10 | |
| | 25 03 | 27 15 | ——— rep. | 36 02 40 | 862 95 | 36 02 20 | ☽ in ♑ 20 ¾ Lat. Bor. 0 ½ |
| | 30 03 | 32 15 | Lunæ limb. rem. ab Austr. in Cauda Capricorni — | 28 41 05 | 686 80 | 28 41 22 | |
| | 32 10 | 34 22 | ——— rep. | 28 40 05 | 686 44 | 28 40 27 | |
| | 36 25 | 38 40 | Sequens in Cauda Capricorni ab Australi in Cauda Aquilæ — | 49 54 10 | 1194 89 | 49 53 53 | |
| | | | Dist. à Vert. ° ′ ″ / Hora supput. h. ′ ″ / Err. Horol. ′ ″ | | | | |
| ♀ 21 | 8 03 50 | Lucidæ Arietis | 65 31 50 / 8 05 52 / + 2 02 | | | | |
| | 06 06 | | 65 10 50 / 08 08 / + 2 02 | | | | |
| | 08 16 | | 64 50 30 / 10 19 / + 2 03 | | | | |
| | 10 17 | | 64 31 40 / 12 20 / + 2 03 | | | | |
| | 12 32 | | 64 11 10 / 14 32 / + 2 00 | | | | |
| | 28 20 | 8 30 25 | Lunæ limb. prox. ab Aquila — | 42 46 40 | 1024 31 | 42 46 25 | |
| | 29 46 | 31 51 | ——— rep. | 42 47 10 | 1024 50 | 42 46 54 | |
| | | | *Tunc Nubes.* | | | | |
| | 42 12 | 44 17 | ——— iter. | 42 49 55 | 1025 62 | 42 49 44 | |
| | 48 19 | 50 24 | Lunæ limb. remot. à Markab — *Iterùm Nubes.* | 31 11 05 | 746 72 | 31 11 37 | |
| ♄ 22 | 8 32 41 | 8 34 46 | Lunæ limbus remotus à Clara in Lino Boreo Piscium ν — | 44 29 45 | 1065 60 | 44 29 51 | |
| | 34 41 | 36 46 | ——— rep. | 44 29 10 | 1065 32 | 44 29 09 | |
| | 39 10 | 41 15 | Lunæ limbus proximus ab Ore Pegasi — | 28 01 45 | 670 98 | 28 01 46 | ☽ in ♓ 9° Lat. Aust. 3½ |
| | 40 32 | 42 37 | ——— rep. | 28 02 05 | 671 12 | 28 02 07 | |
| | 44 29 | 46 34 | Lunæ limb. remot. à dicta in Lino Piscium — | 44 25 15 | 1063 92 | 44 25::39 | |
| | 47 09 | 49 14 | ——— rep. | 44 24 15 | 1063 50 | 44 24::36 | |
| | 51 39 | 53 44 | Os Pegasi ab ν Piscium — | 55 34 40 | 1331 00 | 55 34 36 | |
| ☉ Oct. 14 | 6 18 18 | 6 17 18 | Lunæ limb. rem. à sequent. in Cauda Capricorni — | 46 49 55 | 1121 52 | 46 50 03 | |
| | 19 58 | 18 58 | ——— rep. | 46 49 15 | 1121 19 | 46 49 13 | |
| | 25 21 | 24 21 | Lunæ limb. prox. à Capite Ophiuchi — | 36 45 30 | 880 10 | 36 45 12 | ☽ in ♑ 2½ Lat. Bor. 1 |
| | 28 10 | 27 10 | ——— rep. | 36 46 05 | 880 43 | 36 46 03 | |
| | 36 55 | 35 55 | Lunæ limb. remot. à seq. in Cauda Capricorni — | 46 41 40 | 1118 24 | 46 41 50 | |
| | 38 43 | 37 43 | ——— rep. | 46 40 50 | 1117 95 | 46 41 05 | |
| | | | Dist. à Vert. ° ′ ″ / Hora supput. h. ′ ″ / Err. Horol. ′ ″ | | | | |
| | 59 54 | Lucidæ Arietis | 62 40 50 / 6 58 52 / — 1 02 | | | | |
| | 7 02 04 | | 62 20 40 / 7 01 01 / — 1 03 | | | | |
| | 04 12 | | 62 00 50 / 03 09 / — 1 03 | | | | |
| | 06 16 | | 61 41 50 / 05 10 / — 1 05 | | | | |
| | 08 22 | | 61 21 20 / 07 22 / — 1 00 | | | | |
| ☿ 17 | | 6 47 | Distantia Limbi Lunæ remotioris à Polo Mundi Boreo Arcu Merid. — | | | | |
| | 7 20 20 | 7 18 35 | Lunæ limb. remot. à Markab — | 43 09 45 | 1033 72 | 43 10 00 | |
| | 21 44 | 19 59 | ——— rep. | 43 09 15 | 1033 49 | 43 09 25 | |

| | Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ☿ Oct. 17 | 7 26 38 | 7 24 53 | Lunæ limb. prox. ab Aquila- | 33 29 40 | 801 72 | 33 29 10 |
| ☽ in ♒ 11° Lat. Aust. 1$\frac{5}{6}$ | | 28 43 | 26 58 | ———— rep. | 33 29 50 | 801 77 | 33 29 18 |
| | | 32 52 | 31 07 | Lunæ limb. remot. à Markab – | 43 05 35 | 1032 07 | 43 05 52 |
| | | 34 49 | 33 04 | ———— rep. | 43 04 55 | 1031 83 | 43 05 16 |
| | | | | Dist. à Vert. ° ′ ″ ; Hora supput. h. ′ ″ ; Err. Horol. ′ ″ | | | |
| | ☽ 22 | 8 02 52 | Lucidæ Arietis | 48 31 00 ; 7 59 57 ; — 2 55 | | | |
| | | 05 06 | | 48 11 00 ; 8 02 13 ; — 2 53 | | | |
| | | 07 22 | | 47 50 40 ; 04 30 ; — 2 51 | | | |
| | | 09 34 | | 47 31 10 ; 06 43 ; — 2 51 | | | |
| | ☿ 24 | 9 53 40 | 9 49 53 | Lunæ limbus remotus à Palilicio ———— | 29 10 00 | 698 21 | 29 09 55 |
| | | 56 23 | 52 36 | ———— rep. | 29 09 00 | 697 77 | 29 08 50 |
| | | 10 00 41 | 56 54 | Lunæ limbus remotus à lucida Arietis ———— | 16 09 55 | 387 18 | 16 09 51 |
| ☽ in ♉ 6°$\frac{1}{2}$ Lat. Aust. 5$\frac{2}{3}$ | | 02 52 | 59 05 | ———— rep. | 16 09 55 | 387 14 | 16 09 45 |
| | | 05 43 | 10 01 56 | Lunæ limbus remotus à Palilicio ———— | 29 05 35 | 696 39 | 29 05 22 |
| | | 07 45 | 03 58 | ———— rep. | 29 04 35 | 696 04 | 29 04 30 |
| | | | | Dist. à Vert. ° ′ ″ ; Hora supput. h ′ ″ ; Err. Horol. ′ ″ | | | |
| | ♄ 27 | 8 42 51 | Palilicii | 67 01 00 ; 8 37 44 ; — 5 07 | | | |
| | | 46 07 | | 66 30 50 ; 41 00 ; — 5 07 | | | |
| | | 48 13 | | 66 10 50 ; 43 08 ; — 5 05 | | | |
| | | 50 18 | | 65 51 00 ; 45 15 ; — 5 03 | | | |
| | | 52 28 | | 65 30 50 ; 47 26 ; — 5 02 | | | |
| | | 9 06 42 | 9 01 37 | Lunæ limbus remotus à Palilicio ———— | 08 40 30 | 207 67 | 08 40 35 |
| | | 08 38 | 03 33 | ———— rep. | 08 41 40 | 208 07 | 08 41 35 |
| | | 13 11 | 08 06 | Lunæ limbus proximus à Cornu Tauri Boreo — | 10 20 25 | 247 65 | 10 20 39 |
| | | 15 32 | 10 27 | ———— rep. | 10 19 55 | 247 43 | 10 20 06 |
| ☽ in ♊ 13°$\frac{1}{2}$ Lat. Aust. 4$\frac{1}{2}$ | | 19 14 | 14 11 | Lunæ limbus remotus à Palilicio ———— | 08 46 50 | 210 16 | 08 46 50 |
| | | 20 44 | 15 39 | ———— rep. | 08 47 35 | 210 48 | 08 47 37 |
| | | 24 31 | 19 26 | Palilicium à Cornu Tauri Boreo ———— | 16 45 35 | 401 47 | 16 45 39 |
| | ♃ Nov. 1 *vel* | 17 23 37 | 17 15 47 | Lunæ limbus remotus à lucido Pede Geminorum – | 50 43 40 | 1214 79 | 50 43 45 |
| | ♀ 2 *mane* | 26 30 | 18 40 | ———— rep. | 50 44 50 | 1215 28 | 50 45 00 |
| | | 33 27 | 25 37 | Lunæ limb. rem. à lucida in Capite Leonis ε ———— | 11 46 40 | 281 91 | 11 46 24 |
| | | 37 39 | 29 49 | ———— rep. | 11 47 30 | 282 33 | 11 47 27 |
| ☽ in ♌ 24°$\frac{2}{3}$ Lat. Bor. 1$\frac{1}{3}$ | | 44 39 | 36 49 | Lunæ limbus remotus à γ Geminorum ———— | 50 52 40 | 1218 39 | 50 52 46 |
| | | 47 14 | 39 24 | ———— rep. | 50 53 35 | 1218 81 | 50 53 50 |
| | | 18 00 33 | 17 52 43 | Lunæ limb. prox. à Jove—— | 23 02 30 | 551 53 | 23 02 18 |
| | | 02 32 | 54 42 | ———— rep. | 23 01 30 | 551 13 | 23 01 18 |
| | ♃ 15 | 6 33 16 | 6 17 16 | Lunæ limbus remotus ab Algenib Pegasi ———— | 37 44 25 | 903 83 | 37 44 35 |
| | | 35 36 | 19 36 | ———— rep. | 37 43 40 | 903 52 | 37 43 48 |

| Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♃ Nov. 15 | 6 39 32 | 6 23 32 | Lunæ limb. prox. ab Humero Aquarii præcedente | 16 41 45 | 399 89 | 16 41 40 | ☽ in ♓ 0½ Lat. Aust. 3½ |
| | 41 36 | 25 36 | ——— rep. | 16 42 15 | 400 06 | 16 42 06 | |
| | 45 25 | 29 25 | Lunæ limb. rem. ab Algenib | 37 40 25 | 902 14 | 37 40 21 | |
| | 47 23 | 31 23 | Algenib ——— rep. | 37 39 45 | 901 93 | 37 39 50 | |
| | 51 25 | 35 25 | Algenib Pegasi ab Humero Aquarii præcedente | 45 06 00 | 1080 09 | 45 06 07 | |
| | | | *Dist. à Vert.* ° ′ ″; *Hora supp.* h ′ ″; *Err. Horol.* ′ ″ | | | | |
| | 7 35 12 | | 67 02 20; 7 19 11; —16 01 | | | | |
| | 37 25 | | 66 41 50; 21 23; —16 02 | | | | |
| | 39 38 | Palilicii | 66 20 40; 23 39; —15 59 | | | | |
| | 41 46 | | 66 00 50; 25 47; —15 59 | | | | |
| | 43 52 | | 65 41 20; 27 53; —15 59 | | | | |
| | | | ° ′ ″; h ′ ″; ′ ″ | | | | |
| ♀ 23 | 6 18 54 | Lucidæ Arietis | 47 20 30; 5 55 20; —23 34 | | | | |
| | 21 06 | | 47 01 20; 57 31; —23 35 | | | | |
| | 23 26 | | 46 41 30; 59 48; —23 38 | | | | |
| ♄ 24 | 9 28 01 | 9 03 11 | Lunæ limb. remot. à Palilicio | 18 00 15 | 431 16 | 18 00 03 | |
| | 30 11 | 05 21 | ——— rep. | 18 01 05 | 431 52 | 18 00 57 | |
| | 32 43 | 07 53 | Lunæ limb. remot. à Cornu Tauri Boreo | 10 23 10 | 248 55 | 10 22 54 | |
| | 34 46 | 09 56 | ——— rep. | 10 23 20 | 248 63 | 10 23 06 | ☽ in ♊ 23° Lat. Aust. 3½ |
| | 37 30 | 12 40 | Lunæ limb. remot. à Palilicio | 18 04 35 | 432 93 | 18 04 28 | |
| | 38 44 | 13 54 | ——— rep. | 18 05 05 | 433 09 | 18 04 53 | |
| | 42 00 | 17 10 | Inter Fixas ——— | 16 45 45 | 401 53 | 16 45 48 | |
| | | | *Die tertio Reduxi Indiculos in horolog. 40′, quos à quarto Januarii præcedent. non attigeram; deindè* | | | | |
| | | | *Dist. à Vert.* h ′ ″; *Hora supput.* h ′ ″; *Err. Horol.* ′ ″ | | | | |
| ☽ Dec. 3 | 6 18 37 | | 63 30 50; 6 23 42; + 5 05 | | | | |
| | 20 46 | Palilicii | 63 11 00; 25 50; + 5 04 | | | | |
| | 22 57 | | 62 51 30; 27 57; + 5 00 | | | | |
| | 18 49 20 | 18 53 40 | Lunæ limb. remot. ab ima in Cingulo Vriginis ——— | 27 51 20 | 667 83 | 27 53 53 | ☽ in ♍ 3° Lat. Bor. 4½ |
| | 51 08 | 55 28 | ——— rep. | 27 52 05 | 667 15 | 27 52 10 | |
| ♂ 18 | 6 36 28 | 6 18 38 | Lunæ limb. remot. à Lucida Plejadum ——— | 19 45 20 | 473 24 | 19 45 35 | |
| | 40 55 | 23 05 | *Luna juxta Nonagesimam* — rep. | 19 43 45 | 472 64 | 19 44 03 | |
| | 55 33 | 37 43 | Lunæ limbus proximus à lucida Arietis ——— | 16 26 25 | 393 73 | 16 26 15 | ☽ in ♉ 8¾ Lat. Aust. 5½ |
| | 58 18 | 40 28 | ——— rep. | 16 26 25 | 393 69 | 16 26 09 | |
| | 7 07 05 | 49 15 | Lunæ limbus remotus à lucida Plejadum ——— | 19 34 20 | 468 82 | 19 34 27 | |
| | | | *Dist. à Vert.* ° ′ ″; *Horá supput.* h ′ ″; *Err. Horol.* ′ ″ | | | | |
| | 30 20 | | 46 53 30 | | | | |
| | 33 19 | Palilicii | 46 29 30 | | | | |
| | 37 33 | | 45 56 40; 7 19 45; — 17 48 | | | | |

| | Anno Christi 1684. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | | | | Dist. à Vert. ° ′ ″ / Hora supp. h ′ ″ / Err. Horol. ′ ″ | | | |
| | ♀ Dec. 21 | 7 26 38 | | 64 29 10 / 7 03 12 / —23 26 | | | |
| | | 28 37 | Pollucis | 64 11 20 / 05 07 / —23 30 | | | |
| | | 30 49 | | 63 51 00 / 07 25 / —23 24 | | | |
| | | 8 07 05 | 7 43 35 | Lunæ limb. prox. à Palilicio – | 12 03 00 | 288 50 | 12 02 54 |
| | | 09 03 | 45 33 | ——— rep. | 12 03 50 | 288 81 | 12 03 40 |
| ☽ in ♊ 17½ Lat. Aust. 3½ | | 12 00 | 48 30 | Lunæ limb. remot. ab Humero sequente Orionis— | 14 07 30 | 338 18 | 14 07 15 |
| | | 13 46 | 50 16 | ——— rep. | 14 07 15 | 338 09 | 14 07 02 |
| | | 17 08 | 53 38 | Lunæ limb. prox. à Palilicio – | 12 07 25 | 290 25 | 12 07 16 |
| | | 18 57 | 55 27 | ——— rep. | 12 08 15 | 290 58 | 12 08 06 |
| | Anno Christi MDCLXXXIV. | | | | | | |
| | | | | Dist. à Vert. ° ′ ″ / Hora supp. h ′ ″ / Err. Horol. ′ ″ | | | |
| | ☽ Jan. 21 | 6 30 52 | | 50 10 20 / 6 23 51 / — 7 01 | | | |
| | | 33 04 | | 49 50 00 | | | |
| | | 35 07 | Pollucis | 49 31 00 / 28 04 / — 7 03 | | | |
| | | 37 14 | | 49 11 00 | | | |
| | | 39 25 | | 48 50 50 / 32 22 / — 7 03 | | | |
| | ♂ 22 | 8 56 46 | 8 48 56 | Lunæ limb. prox. à Regulo – | 03 16 10 | 078 28 | 03 16 12 |
| | | 59 32 | 51 42 | ——— rep. | 03 14 50 | 077 77 | 03 14 55 |
| ☽ in ♌ 22°½ Lat. Bor. 1¼ | | 9 02 50 | 55 00 | Lunæ limb. prox. à lucida in Cervice Leonis γ —— | 07 18 35 | 174 87 | 07 18 24 |
| | | 04 37 | 56 47 | ——— rep. | 07 18 00 | 174 64 | 07 17 50 |
| | | 08 55 | 9 01 05 | Lunæ limb. prox. à Regulo— | 03 10 40 | 076 09 | 03 10 42 |
| | | 10 45 | 02 55 | ——— rep. | 03 09 50 | 075 74 | 03 09 50 |
| | | | | Dist. à Vert. ° ′ ″ / Hora supp. h ′ ″ / Err. Horol. ′ ″ | | | |
| | ☽ 28 | 6 02 48 | | 51 01 20 / 5 50 15 / —12 29 | | | |
| | | 04 58 | Pollucis | 50 41 00 / 52 29 / —12 29 | | | |
| | | 07 04 | | 50 21 10 / 54 37 / —12 27 | | | |
| | ♂ Feb. 12 | 7 02 47 | 6 43 12 | Lunæ limb. remot. à Palilicio | 11 08 15 | 266 76 | 11 08 29 |
| | | 05 14 | 45 39 | ——— rep. | 11 07 05 | 266 32 | 11 07 22 |
| ☽ in ♉ 24°½ Lat. Aust. 5 | | 11 19 | 51 44 | Lunæ limbus proximus ab Algol Medusæ —— | 27 15 45 | 652 67 | 27 15 52 |
| | | 13 24 | 53 49 | ——— rep. | 27 15 40 | 652 64 | 27 15 48 |
| | | 17 16 | 57 41 | Lunæ limb. remot. à Palilicio | 11 02 50 | 264 56 | 11 02 58 |
| | | 19 12 | 59 37 | ——— rep. | 11 02 10 | 264 28 | 11 02 16 |
| | | | | Dist. à Vert. ° ′ ″ / Hora supput. h ′ ″ / Err. Horol. ′ ″ | | | |
| | | 54 00 | Lucidæ Arietis | 55 51 00 / 7 34 24 / — 19 36 | | | |
| | | 56 10 | | 56 10 50 / 36 32 / — 19 38 | | | |
| | | 58 20 | | 56 31 10 / 38 44 / — 19 36 | | | |
| | | | | *Die Mercurii 13 Reduxi indices Horologii 6 Minuta.* | | | |
| ☽ in ♋ 2°½ Lat. 2° | ☿ 15 | 7 29 41 | 7 15 41 | Lunæ limb. prox. à Palilicio | 27 13 40 | 652 00 | 27 14 10 |
| | | 31 26 | 17 26 | ——— rep. | 27 14 20 | 652 24 | 27 14 48 |
| | | 35 07 | 21 07 | Lunæ limb. prox. à Capella – | 29 09 35 | 697 96 | 29 09 18 |
| | | | | *Tunc Nubes, per quas tamen capta ejus à vertice Distantia Meridiana.* | | | |

| Anno Christi 1684. Styl. Vet. | Tempora per Horologium Oscillatorium h ' " | Tempora ex Altitudinibus Correcta. h ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| | | | Dist. à vert. ° ' " / Hor. supp. h ' " / Err. Horol. ' " | | | | |
| ♀ Feb. 15 | 9 37 40 | Palilicii | 56 20 20 / 9 23 41 / —13 59 | | | | |
| | 39 58 | | 56 40 50 / 25 59 / —13 59 | | | | |
| | 42 10 | | 57 00 40 / 28 12 / —13 58 | | | | |
| ♂ 19 | 9 05 47 | 8 51 17 | Lunæ limb. prox. à Polluce — | 41 05 30 | 983 99 | 41 05 24 | ☽ in ♍ 0° Lat. Bor. 3. |
| | 07 33 | 53 03 | rep. | 41 06 30 | 984 39 | 41 06 24 | |
| | 10 03 | 55 33 | Lunæ limb. prox. à Procyone | 42 13 00 | 1011 13 | 42 13 25 | |
| ☿ Mar. 12 | 8 34 04 | 8 19 04 | Lunæ limb. prox. ab Oculo Boreo Tauri | 11 40 10 | 279 40 | 11 40 07 | |
| | 36 25 | 21 25 | rep. | 11 40 50 | 279 65 | 11 40 45 | |
| | 41 43 | 26 43 | Lunæ limb. rem. ab humero Orionis præcedente | 13 35 50 | 325 56 | 13 35 39 | ☽ in ♊ 16°. Lat. Aust. 3½. |
| | 44 32 | 29 32 | rep. | 13 35 50 | 325 58 | 13 35 42 | |
| | 46 06 | 31 06 | Lunæ limb. prox. ab Oculo Boreo Tauri | 11 44 50 | 281 38 | 11 45 03 | |
| | 47 44 | 32 44 | rep. | 11 45 40 | 281 62 | 11 45 40 | |
| | 51 37 | 36 37 | Oculus Boreus Tauri ab humero præcedente Orionis | 18 49 15 | 450 67 | 18 48 54 | |
| | | | Dist. à Vert. ° ' " / Hora supput. h ' " / Err. Horol. ' " | | | | |
| | 10 46 22 | Calcis Castoris | 60 00 40 / 10 31 20 / —15 02 | | | | |
| | 48 36 | | 60 21 00 / 33 31 / —15 05 | | | | |
| | 50 42 | | 60 41 20 / 35 41 / —15 01 | | | | |
| ♃ 13 | 8 17 28 | 8 02 28 | Lunæ limb. rem. à Polluce — | 22 40 25 | 542 84 | 22 40 28 | |
| | 19 29 | 04 29 | rep. | 22 39 35 | 542 57 | 22 39 48 | |
| | 23 31 | 08 31 | Lunæ limb. prox. à Capella | 27 22 05 | 655 26 | 27 22 22 | ☽ in ♊ 28°½. Lat. Aust. 2½. |
| | 24 46 | 09 46 | rep. | 27 22 15 | 655 23 | 27 22 18 | |
| | 28 17 | 13 17 | Lunæ limb. rem. à Polluce — | 22 36 15 | 541 21 | 22 36 22 | |
| | 29 44 | 14 44 | rep. | 22 35 45 | 541 03 | 22 35 55 | |
| ♀ 21 | 9 37 45 | 9 23 00 | Lunæ limb. rem. ab infima in Cingulo Virginis γ — | 18 50 15 | 451 08 | 18 49 55 | ☽ in ♎ 24° |
| | 40 27 | 25 42 | rep. | 18 51 35 | 451 58 | 18 51 10 | |
| | | | Dist. à Vert. ° ' " / Hora supp. h ' " / Err. Horol. ' " | | | | |
| ♄ 22 *mane* | 20 01 24 | Limbi Solis inferioris | 70 00 10 / 19 46 43 / —14 41 | | | | |
| | 03 35 | | 69 40 50 / 48 51 / —14 44 | | | | |
| | 05 48 | | 69 21 10 / 51 08 / —14 40 | | | | |
| | 08 00 | | 69 01 30 / 53 22 / —14 38 | | | | |
| | 10 20 | | 68 40 50 / 55 43 / —14 37 | | | | |
| ♄ Apr. 5 | 20 01 08 | Limbi Solis inferioris | 65 21 20 / 19 48 16 / —12 52 | | | | |
| | 03 29 | | 65 00 20 / 50 36 / —12 53 | | | | |
| | 05 40 | | 64 40 50 / 52 46 / —12 54 | | | | |
| ♃ 10 | 9 09 31 | 8 57 46 | Lunæ limbus remot à Polluce | 13 54 45 | 333 23 | 13 54 50 | ☽ in ♋ 8° Lat. Aust. 1¼ |
| | 11 24 | 59 39 | rep. | 13 53 55 | 333 00 | 13 54 16 | |
| | 16 03 | 9 04 18 | Lunæ limb. prox. à Capella | 31 24 15 | 751 83 | 31 24 24 | |
| | 18 18 | 06 33 | rep. | 31 25 20 | 752 16 | 31 25 13 | |
| | 22 42 | 10 57 | Lunæ limb. rem. à Polluce — | 13 49 45 | 331 27 | 13 49 57 | |
| | 26 12 | 14 27 | rep. | 13 48 25 | 330 75 | 13 48 39 | |

| | Anno Christi 1684. *Styl. Vet.* | *Tempora per Horologium Oscillatorium* h. ′ ″ | *Tempora ex Altitudinibus Correcta.* h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h. ′ ″ \| *Err. Horol.* ′ ″ | | | |
| | ♄ Apr. 12 | 4 39 33 | Sol. limbi inferioris | 66 02 00 \| 4 28 15 \| —11 18 | | | |
| | | 41 42 | | 66 21 50 \| 30 19 \| —11 22 | | | |
| | | 43 50 | | 66 41 30 \| 32 32 \| —11 18 | | | |
| | | 8 20 32 | 8 09 12 | Lunæ limb. rem. à Regulo — | 21 55 00 | 524 76 | 21 55 03 |
| ☽ in ♌ 2°½ Lat. Bor. 0¼ | | 21 50 | 10 30 | ——— rep. | 21 54 25 | 524 60 | 21 54 39 |
| | | 25 05 | 13 45 | Lunæ limb. prox. à Procyone | 20 21 00 | 487 55 | 20 21 35 |
| | | 26 43 | 15 23 | ——— rep. | 20 21 40 | 487 77 | 20 22 07 |
| | | 30 49 | 19 29 | Lunæ limb. rem à Regulo — | 21 50 35 | 523 08 | 21 51 02 |
| | | 32 30 | 21 10 | ——— rep. | 21 49 50 | 522 77 | 21 50 03 |
| | ☽ 14 | 8 41 12 | 8 30 02 | Lunæ limb. rem. à Cauda Leonis — | 18 18 15 | 438 71 | 18 18 57 |
| ☽ in ♍ 2° Lat. Bor. 2½ | | 43 20 | 32 10 | ——— rep. | 18 18 30 | 438 57 | 18 18 36 |
| | | 47 07 | 35 57 | Lunæ limb. prox. à lucida in Cervice Leonis — | 08 40 55 | 207 76 | 08 40 48 |
| | | 48 28 | 37 18 | ——— rep. | 08 41 25 | 207 94 | 08 41 15 |
| | | 51 40 | 40 30 | Lunæ limb. rem. à Cauda Leonis — | 18 15 25 | 437 28 | 18 15 22 |
| | ☿ 16 | 8 34 22 | 8 23 17 | Lunæ limb. prox. à Regulo — | 35 41 15 | 854 37 | 35 40 51 |
| | | 35 50 | 24 45 | ——— rep. | 35 41 55 | 854 64 | 35 41 31 |
| | | 41 14 | 30 09 | Lunæ limb. rem. à Vindemiat. | 13 03 35 | 312 77 | 13 03 39 |
| ☽ in ♎ 1°½ Lat. Bor. 4. | | 42 52 | 31 47 | ——— rep. | 13 03 20 | 312 65 | 13 03 21 |
| | | 46 21 | 35 16 | Lunæ limb. prox. à Regulo — | 35 47 10 | 856 66 | 35 46 35 |
| | | 49 04 | 38 59 | ——— rep. | 35 48 35 | 857 22 | 35 45 28 |
| | | 51 23 | 40 18 | Regulus à Vindemiatrice — | 42 33 45 | 1019 16 | 42 33 32 |
| | ♃ 17 | 8 32 40 | 8 21 40 | Lunæ limb. prox. à Regulo — | 50 51 10 | 1217 64 | 50 50 54 |
| | | 35 07 | 24 07 | ——— rep. | 50 52 10 | 1218 05 | 50 51 55 |
| ☽ in ♎ 16°½ Lat. Bor. 4½ | | 40 12 | 29 12 | Lunæ limb. prox. ab Arcturo | 26 26 40 | 633 22 | 26 27 05 |
| | | 42 00 | 31 00 | ——— rep. | 26 27 00 | 633 40 | 26 27 32 |
| | | 44 18 | 33 18 | ——— iter. | 26 27 00 | 633 42 | 26 27 35 |
| | | 48 37 | 37 37 | Lunæ limb. prox. à Regulo — | 50 59 20 | 1220 87 | 50 58 58 |
| | | 50 17 | 39 17 | ——— rep. | 51 00 05 | 1221 23 | 50 59 54 |
| | | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h ′ ″ \| *Err. Horol.* ′ ″ | | | |
| | ♃ 24 | 20 11 44 | Sol. limbi inferioris — | 58 40 50 \| 20 01 04 \| —10 40 | | | |
| | | 13 51 | | 58 20 40 \| 03 17 \| —10 34 | | | |
| | | 16 03 | | 58 01 20 \| 05 25 \| —10 38 | | | |
| | ♃ Maii 8 | 9 17 30 | 9 07 50 | Lunæ limb. rem. à Regulo — | 37 50 50 | 906 36 | 37 50 54 |
| ☽ in ♋ 19° | | 20 10 | 10 30 | ——— rep. | 37 49 20 | 905 78 | 37 49 27 |
| | ☉ 11 *vel* | 8 59 29 | 8 50 00 | Lunæ limb. rem. à Spica Virginis — | 52 12 15 | 1250 14 | 52 12 22 |
| ☽ in ♌ 28° | ☽ 12 *mane* | 9 01 53 | 52 23 | ——— rep. | 52 11 05 | 1249 63 | 52 11 06 |
| | | | | *Dist. à Vert.* ° ′ ″ \| *Err. Horol.* h ′ ″ \| *Hora supp.* ′ ″ | | | |
| | | 19 54 53 | Sol. limbi inferioris — | 57 58 50 \| 19 45 28 \| — 9 25 | | | |
| | | 56 49 | | 57 41 00 \| 47 24 \| — 9 25 | | | |
| | | 59 01 | | 57 20 30 \| 49 37 \| — 9 24 | | | |
| | ♀ 16 | 10 03 50 | 9 54 40 | Lunæ limb. prox. à Spica Virginis — | 22 14 40 | 532 49 | 22 14 27 |
| | | 06 09 | 56 59 | ——— rep. | 22 15 40 | 532 89 | 22 15 29 |

| ANNO CHRISTI 1684. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♀ Maii 16 | 10 09 53 | 10 00 43 | Lunæ limb. prox. ab Arcturo | 33 27 00 | 800 73 | 33 26 42 | ☽ in ♍ 11°½ Lat. Bor. 3½ |
| | 11 31 | 02 21 | ——— rep. | 33 27 35 | 800 95 | 33 27 15 | |
| | 15 05 | 05 55 | Lunæ limb. prox. à Spica Virginis ——— | 22 19 35 | 534 46 | 22 19 24 | |
| | 16 23 | 07 13 | ——— rep. | 22 20 05 | 534 70 | 22 20 01 | |
| ♄ 17 | 10 12 37 | 10 03 32 | Lunæ limb. prox. à Spica Virginis ——— | 36 53 00 | 883 19 | 36 52 57 | |
| | 15 05 | 06 00 | ——— rep. | 35 54 15 | 883 92 | 36 54 45 | |
| | 21 40 | 12 35 | Lunæ limb. prox. ab Ophiuchi Yed ——— | 13 17 20 | 318 27 | 13 17 24 | ☽ in ♍ 26°½ Lat. Bor. 3½ |
| | 23 39 | 14 34 | ——— rep. | 13 17 20 | 318 27 | 13 13 24 | |
| | 29 32 | 20 27 | Lunæ limb. prox. à Spica Virginis ——— | 37 00 25 | 886 09 | 37 00 12 | |
| | 30 10 | 21 05 | ——— rep. | 37 01 30 | 886 47 | 37 01 09 | |
| | 33 44 | 24 39 | Spica Virginis Yed à Ophiuchi ——— | 42 32 45 | 1018 91 | 42 32 54 | |
| | 38 08 | 29 03 | ——— rep. | 42 32 45 | 1018 88 | 42 32 50 | |
| | | | Dist. à Vert. ° ′ ″ \| Hora supp. h ′ ″ \| Err. Horol. ′ ″ | | | | |
| ☉ 18 | 20 15 36 | Limbi Solis inferioris | 53 49 50 \| 20 06 32 \| — 9 04 | | | | |
| | 17 41 | | 30 20 \| 08 40 \| — 9 01 | | | | |
| | 19 45 | | 11 40 \| 10 42 \| — 9 03 | | | | |
| | 21 58 | | 52 51 20 \| 12 55 \| — 9 03 | | | | |
| | 24 08 | | 31 40 \| 15 04 \| — 9 04 | | | | |
| ♀ Junii 6 | 9 07 02 | 8 57 47 | Lunæ Cuspis Borea à Venere | Part. per Mic. 4950 | = 24′ 42″ | | Vide Fig. 133 |
| | 52 06 | 9 42 51 | Lunæ limb. lucid. à Venere – | 3766 | = 18 48 | | |
| | 54 42 | 45 27 | ——— rep. | 3848 | = 19 12 | | |
| | 10 00 02 | 50 47 | ——— itcr. | 3997 | = 19 56 | | |
| | | | *In primâ Observatione Venus nondum accesserat ad Rectam per Cuspides; in tribus posterioribus Rectam superaverat.* | | | | |
| ♄ 7 | 9 44 49 | 9 35 29 | Lunæ limb. rem. à Spica Virginis ——— | 54 57 05 | 1316 00 | 54 57 06 | |
| | 49 30 | 40 10 | ——— rep. | 54 54 20 | 1314 90 | 54 54 21 | ☽ in ♌ 25° Lat. Bor. 2½ |
| | 57 35 | 48 15 | Lunæ limb. rem. à Regulo – | 02 12 50 | 53 00 | 02 12 46 | |
| | 10 00 35 | 51 15 | ——— rep. | 02 12 35 | 52 86 | 02 12 25 | |
| | 07 28 | 58 08 | Lunæ limb. rem. à Spica Virginis ——— | 54 44 00 | 1310 78 | 54 44 02 | |
| | 09 50 | 10 00 30 | ——— rep. | 54 42 20 | 1310 14 | 54 42 25 | |
| | | | Dist. à Vert. ° ′ ″ \| Hor. supput. h ′ ″ \| Err. Horol. ′ ″ | | | | |
| | 20 04 20 | Limbi Solis inferioris | 54 21 00 \| 19 54 59 \| — 9 21 | | | | |
| | 06 25 | | 54 01 30 \| 57 05 \| — 9 21 | | | | |
| | 08 38 | | 53 41 20 \| 59 16 \| — 9 22 | | | | |
| ☉ 8 | 9 27 40 | 9 18 16 | Lunæ limb. rem. à Spica Virginis ——— | 41 30 00 | 993 87 | 41 30 10 | |
| | 29 58 | 20 34 | ——— rep. | 41 29 00 | 993 50 | 41 29 15 | |

| | Anno Christi 1684. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' '' | Tempora ex Altitudinibus Correcta h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' '' | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' '' |
|---|---|---|---|---|---|---|---|
| | ☽ Jun. 9 | 9 37 03 | 9 27 38 | Lunæ limb. rem. à Spica Virginis | 27 43 40 | 663 77 | 27 43 42 |
| ☽ in ♍ 22°½ Lat. Bor. 4 | | 39 27 | 30 02 | rep. | 27 42 10 | 663 24 | 27 42 22 |
| | | 43 38 | 34 13 | Lunæ limb. rem. ab Arcturo | 37 27 20 | 896 97 | 37 27 24 |
| | | 45 23 | 35 58 | rep. | 37 26 50 | 896 76 | 37 26 53 |
| | | 49 34 | 40 09 | Lunæ limb. rem. à Spica Virginis | 27 37 10 | 661 22 | 27 37 18 |
| | | 51 25 | 42 00 | rep. | 27 36 25 | 660 90 | 27 36 25 |
| | ♂ 10 | 4 58 24 | Limbi Solis inferioris | Dist. à Vert. 61 10 20 | | | |
| | | 5 00 37 | | 61 31 00 | | | |
| | | 02 42 | | 61 50 50 | | | |
| | | 9 39 25 | 9 30 00 | Lunæ limb. rem. à Spica Virginis | 14 21 20 | 343 69 | 14 21 02 |
| | | 43 40 | 34 15 | rep. | 14 20 40 | 343 48 | 14 20 30 |
| ☽ in ♎ 7° Lat. Bor. 4½ | | 46 03 | 36 38 | Lunæ limb. rem. ab Arcturo | 29 33 20 | 707 66 | 29 33 36 |
| | | 47 54 | 38 29 | rep. | 29 32 55 | 707 51 | 29 33 14 |
| | | 53 36 | 44 11 | Lunæ limb. rem. à Spica Virginis | 14 14 50 | 341 13 | 14 14 38 |
| | | 55 38 | 46 13 | rep. | 14 14 00 | 340 79 | 14 13 45 |
| | ☿ 11 | 10 23 33 | 10 14 08 | Lunæ limb. rem. à suprema in Fronte Scorpii β | 37 32 45 | 898 88 | 37 32 10 |
| | | 26 10 | 16 45 | rep. | 37 30 30 | 898 10 | 37 30 13 |
| | | 32 43 | 23 18 | Lunæ limb. prox. ab Arcturo | 26 23 25 | 632 01 | 26 24 03 |
| ☽ in ♎ 21°½ Lat. Bor. 4½ | | 34 34 | 25 09 | rep. | 26 23 45 | 632 11 | 26 24 16 |
| | | 38 17 | 28 52 | Lunæ limb. rem. à suprema dicta Scorpii | 37 24 50 | 895 78 | 37 24 25 |
| | | 39 50 | 30 25 | rep. | 37 24 10 | 895 46 | 37 23 37 |
| | | 46 04 | 36 39 | Arcturus à suprema dicta Scorpii | 47 26 35 | 1135 92 | 47 26 07 |
| | ♃ 12 | 10 13 23 | 10 03 56 | Lunæ limb. rem. à dicta Scorpii β | 23 09 30 | 554 43 | 23 09 33 |
| | | 15 27 | 06 00 | rep. | 23 08 45 | 554 07 | 23 08 39 |
| ☽ in ♏ 6° Lat. Bor. 4 | | 19 17 | 09 50 | Lunæ limb. rem. à lucida in Collo Serpentis | 24 25 05 | 584 83 | 24 25 42 |
| | | 21 31 | 12 04 | rep. | 24 24 55 | 584 77 | 24 25 33 |
| | | 25 17 | 15 50 | Lunæ limb. rem. à dicta Scorpii β | 23 04 05 | 552 18 | 23 03 55 |
| | | 27 01 | 17 34 | rep. | 23 03 25 | 551 91 | 23 03 15 |
| | | 33 35 | 24 08 | Lucida in Collo Serpentis à suprema in fronte Scorpii | 26 43 00 | 639 56 | 26 42 57 |
| | ♀ 13 | 4 51 11 | Limbi Solis inferioris | Dist. à Vert. 60 02 50 | | | |
| | | 53 03 | | 60 20 30 | | | |
| | | 55 15 | | 60 41 30 | | | |
| | ♄ 14 | 9 46 46 | 9 37 16 | Lunæ limb. prox. à Spica Virginis | 45 31 55 | 1090 43 | 45 32 05 |
| | | 48 39 | 39 09 | rep. | 45 32 50 | 1090 80 | 45 33 00 |

| Anno Christi 1684. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ' " | Tempora ex Altitudinibus Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| ♄ Jun. 14 | 9 54 05 | 9 44 35 | Lunæ limb. prox. à Yed Ophiuchi | 16 00 20 | 383 33 | 16 00 14 |
| | 55 42 | 46 12 | ——— rep. | 16 00 30 | 383 42 | 16 00 27 |
| | 10 01 17 | 51 47 | Lunæ limb. prox. à Spica Virginis | 45 37 50 | 1092 86 | 45 38 09 |
| | 02 38 | 53 08 | ——— rep. | 45 38 45 | 1093 17 | 45 38 55 |
| ☉ 15 | 10 31 39 | 10 22 07 | Lunæ limb. prox. à Spica Virginis | 60 09 30 | 1440 95 | 60 09 22 |
| | 33 35 | 24 03 | ——— rep. | 60 10 15 | 1441 26 | 60 10 09 |
| | | | Dist. à Vert. ° ' " \| Hora suppos. h ' " \| Err. Horol. ' " | | | |
| ☽ 16 | 4 30 04 | | 56 50 50 \| 4 20 33 \| — 9 31 | | | |
| | 32 16 | Limbi Solis inferioris | 57 11 10 \| 22 43 \| — 9 33 | | | |
| | 34 22 | | 57 30 50 \| 24 50 \| — 9 32 | | | |
| | 36 32 | | 57 50 50 \| 26 58 \| — 9 34 | | | |
| | 38 38 | | 58 10 30 \| 29 05 \| — 9 33 | | | |
| | 13 33 41 | 13 24 09 | Lunæ limb. rem. ab Humero Aquarii antecedente | 44 35 55 | 1068 15 | 44 36 13 |
| | 36 50 | 27 18 | ——— rep. | 44 34 25 | 1067 56 | 44 34 45 |
| | 39 14 | 29 42 | ——— iter. | 44 33 35 | 1067 15 | 44 33 45 |
| | 40 40 | 31 08 | Eclipsis minæ Lux enim Lunæ hebetior apparuit in imâ Orâ quam in superiore. | | | |
| | | | Part. per Mic. ' " | | | |
| | 14 04 30 | 54 58 | ☽ˢ Diam. 6405 \| = 31 57 | | | |
| | 06 40 | 57 08 | ——— rep. 6430 \| = 32 04 | | | |
| | 12 00 | 14 02 28 | Penumbra densa, forsan Initium. | | | |
| | 16 00 | 06 28 | Umbra Limbum supra Sinam temeraverat. | | | |
| | 18 00 | 08 28 | Certe | Part. per Micr. | ' " | |
| | 21 36 | 12 04 | Partes obscuratæ ——— | 1660 | = 08 16 | |
| | 26 00 | 16 28 | ——— rep. | 2010 | = 10 01 | |
| | 36 00 | 26 28 | ——— iter. | 2290 | = 11 25 | |
| | 42 00 | 32 28 | Decrevit sensibiliter. | | | |
| | 43 00 | 33 28 | Partes obscuratæ Peripheriæ — | 1895 | = 09 27 | |
| | 50 09 | 40 28 | Finis mihi, sed dubio. | | | |
| | 54 00 | 44 28 | Finis certus, Ministro *Fabro* consentiente. | | | |
| | 57 00 | 47 28 | Penumbra. | | | |
| | 15 01 00 | 51 28 | Adhuc Penumbra. | | | |
| | 11 00 | 15 01 28 | Etiam adhuc. | | | |
| | 20 00 | 10 28 | Limbus Austrinus haud adhuc Limbi Borei claritudine recuperaverat, sed ut $1^h\ 40'\ 40''$ per Horologium apparuit. | | | |

☽ in ♐ 5° Lat. Bor. $2\frac{1}{3}$

*Difficilima fuit hujus Eclipsis Observatio, propter obliquam Lunæ in Umbram Terræ incidentiam, adeoq; tenuis fuit ut Limbum Lunæ in eam mersum satis distinctè cernere potuerimus; adeo confusa ut vix Cuspides determinare licuerit: Definivi ergo inter ipsas Distantiam, sive Chordam Peripheriæ circa medium deficientem, ut potui Micrometro, quam tamen consideratâ duratione in excessu potius peccare puto, partes enim Diametri deficientes longè fuisset difficiliùs determinare.*

| ANNO CHRISTI 1684. *Styl. Vet.* | *Tempora per Horologium Oscillatorium* h. ′ ″ | *Tempora ex Altitudinibus Correcta.* h. ′ ″ | *LUNÆ* DISTANTIÆ à FIXIS. | *Distantia per lineas diagonales.* ° ′ ″ | *Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* *Revol. Cent.* | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♃ Jun. 26 | 14 45 32 | 14 36 32 | Lunæ limb. rem. ab Algenib Pegasi ——— | 31 43 55 | 759 74 | 31 44 12 |
| | 49 30 | 40 30 | ——— rep. | 31 44 55 | 760 18 | 31 45 18 |
| | | | *Dist. à Vert.* ° ′ ″ ; *Hora supput.* h ′ ″ ; *Err. Horol.* ′ ″ | | | |
| ♀ 27 | 19 37 46 | | 59 10 40 ; 19 28 47 ; — 8 59 | | | |
| | 40 04 | Limbi Solis inferioris | 58 48 50 ; 31 07 ; — 8 57 | | | |
| *vel* | 42 14 | | 58 29 40 ; 33 11 ; — 9 03 | | | |
| | 44 12 | | 58 10 30 ; 35 13 ; — 8 59 | | | |
| ♄ 28 *mane* | 22 02 08 | 21 53 08 | Lunæ limb. prox. à Solis remoto ——— | 49 34 55 | 1187 49 | 49 39 22 |
| | 04 43 | 55 43 | ——— rep. | 49 33 45 | 1186 97 | 49 34 05 |
| | 06 53 | 57 53 | Idem limb. Lunæ à Solis proximo ——— | 49 02 00 | 1174 22 | 49 02 10 |
| | 08 17 | 59 17 | ——— rep. | 49 01 20 | 1174 02 | 49 01 40 |
| | | | *Dist. à Vert.* ° ′ ″ ; *Hora supput.* h. ′ ″ ; *Err. Horol.* ′ ″ | | | |
| ♄ 28 | 4 33 58 | Limbi Solis inferioris | 58 15 10 ; 4 25 03 ; — 8 55 | | | |
| | 35 34 | | 29 40 ; 26 37 ; — 8 57 | | | |
| | 37 28 | | 47 30 ; 28 31 ; — 8 57 | | | |
| | 40 05 | | 59 11 40 ; 31 07 ; — 8 58 | | | |

*Julii* 2. Eclipsim Solis cum per Telescopium Pedum Sedecim, tum supra Scænam in obscurato Conclavi, Observavi, Diameter Speciei per Telescopium bipedale supra Scænam transmissi erat 5½ dig. pedis Anglicani, qui 16 Circulis Concentricis æquidistantibus in 32 minuta quot Solis est Diameter divisus, erat. Cœlum Ante Meridiem Nubibus obductum, ut vix spes erat Eclipsim observandi, circa Meridiem dehiscere cœperunt, & paulo ante Eclipsim dissipari $2^h\ 4'$, Sol clarè conspectus integer apparuit; tunc nubibus iterum exceptus latuit usque $2^h\ 12'$, quando ab iis prodeuntis ora Austrina deficere videbatur. Deinde satis sereno Cœlo observavimus,

| ANNO CHRISTI 1684. *Styl. Vet.* | *Tempora per Horologium Oscillatorium* h ′ ″ | *Tempora inde ab Observationibus deducta.* h ′ ″ | *Solaris Eclipsis.* | *Minuta supra Scænam Obscurata.* | *Partes liberæ per Micrometrum.* | ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Julii 2 | 2 12 30 | 2 03 45 | Sol clarè conspectus Integer— | | | |
| | 21 02 | 12 17 | Sol defecit ab Orá Australi — | | | |
| | 21 25 | 12 40 | Partes obsuratæ supra Scænam | 0′½ | *vel plus* | |
| | 32 20 | 23 35 | ——— | 04 | | |
| | 46 40 | 37 55 | Partes liberæ Micrometro — | | 4472 = | 22 19 |
| | 51 37 | 42 52 | ——— | 11 | | |
| | 3 05 23 | 56 38 | ——— | 15 | | |
| | 09 05 | 3 00 20 | Centrum ——— | 16 | | |
| | 10 04 | 01 19 | ——— | | 3030 = | 15 07 |
| | 11 47 | 03 02 | ——— | | 2930 = | 14 36 |
| | 12 15 | 03 30 | ——— | 17 | | |
| | 13 23 | 04 38 | Cornua Horizontalia ——— | | | |
| | 17 43 | 08 58 | ——— | 18 | | |
| | 21 48 | 13 03 | ——— | | 2507 = | 12 30 |
| | 23 00 | 14 15 | ——— | 19 | | |
| | 25 40 | 16 55 | ——— | | 2443 = | 12 11 |
| | 29 51 | 21 06 | ——— | 19½ | | |

| ANNO CHRISTI 1684. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora inde ab Observationibus deducta. h ′ ″ | *Solaris Eclipsis.* | Minuta supra Scenam obscurata. | Partes liberæ per Micrometrum. | ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Julii 2 | 3 33 54 | 3 25 09 | Partes obscuratæ supra Scenam | 19′½ | | |
| | 40 08 | 31 23 | ——————— | 19 | | |
| | 43 16 | 34 31 | ——————— | 18½ | | |
| | 45 35 | 36 50 | ——————— | 18 | | |
| | 49 15 | 40 30 | Cuspis Inferior ad Nadir Solis | | | |
| | 50 02 | 41 17 | ——————— | 17′ | | |
| | 54 20 | 45 35 | ———————Centrum | 16 | | |
| | 56 45 | 48 00 | ——————— | 15 | | |
| | 4 02 58 | 54 13 | ——————— | 13 | | |
| | 06 00 | 57 15 | ——————— | 12 *feré* | | |
| | 08 45 | 4 00 00 | ——————— | 11 | | |
| | 16 32 | 07 47 | ——————— | 08 | | |
| | 17 44 | 09 00 | Cuspid. Vert. Distant. 84*gr.* | | | |
| | 24 08 | 15 23 | Inter Cuspides——————— | | 3514 = | 17 32 |
| | 24 20 | 15 35 | ——————— | 05 | | |
| | 27 14 | 18 29 | Inter Cuspides ——————— | | 3123 = | 15 35 |
| | 29 36 | 20 51 | ——————— | 2½ | | |
| | 30 32 | 21 47 | Inter Cuspides——————— | | 2488 = | 12 22 |
| | 33 05 | 24 21 | ——————— | 01 | | |
| | 36 22 | 27 37 | Finis accuratè, Ministro supra Scenam etiam observante & consentiente | | | |

| Tempora per Horologium ′ ″ | | *Dist. à Vert.* ° ′ ″ | *Hora supput.* h ′ ″ | *Err. Horol.* ′ ″ |
|---|---|---|---|---|
| 43 38 | Limbi Solis inferioris. | 60 11 00 | 4 34 56 | — 8 42 |
| 45 48 | | 60 31 20 | 37 07 | — 8 41 |
| 46 56 | | 60 41 50 | 38 15 | — 8 41 |
| 49 03 | | 61 01 40 | 40 22 | — 8 41 |

*OXONII,*
D. *Wallisius*, *Bernardus*, *Casuelius*, *Rookius*.

| | h ′ ″ |
|---|---|
| Initium— | 2 03 00 |
| Finem— | 4 21 14 |
| Digitos—— | 7 4/12 |

*TOWNLEII,*
D. *Townleius.*

| | h ′ ″ |
|---|---|
| Initium— | 1 59 00 è phas. seq. |
| Finem— | 4 13 05 |
| Digitos——— | |

*DUBLINII* in *HIBERNIA*,
D. *Molineuccius.*

| | h ′ ″ |
|---|---|
| Finem— | 3 56 00 |

*DROGHEDA*,
Sub eodem Meridiano & Latitudine 53° 40′ D. *Osborne.*

| | h ′ ″ |
|---|---|
| Initium— | 1 37 30 |
| Finem— | 3 56 20 |

| Anno Christi 1684. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora inde ab Observationibus deducta. h ′ ″ | Solaris Eclipsis. | Minuta supra Scenam obscurata. | Partes libera per Micrometrum. | ′ ″ |
|---|---|---|---|---|---|---|
| ☿ Julii 2 | | | *PARISIIS,* In Observatorio Regio, *Cassinus.* | | | |
| | | | h ′ ″ | | | |
| | | | Initium—2 25 30 è phas. seq. | | | |
| | | | Finem— 4 43 23 | | | |
| | | | Digitos— 8 00 | | | |
| | | | *ULISSIPONÆ,* D. *Jacobius.* | | | |
| | | | h ′ ″ | | | |
| | | | Initium— 1 30 00 | | | |
| | | | Finem — 4 12 00 | | | |
| | | | Digit. ult. 11 | | | |
| | | | *Dist. à Vert.* \| *Hora suppus.* \| *Err. Horol.* | | | |
| | | | ° ′ ″ \| h ′ ″ \| ′ ″ | | | |
| ☿ Julii 9 | 19 02 40 | | 66 01 50 \| 18 53 38 \| — 9 02 | | | |
| | 05 00 | Limbi | 65 40 00 \| 55 59 \| — 9 01 | | | |
| | 07 06 | Solis inferioris | 65 21 00 \| 58 01 \| — 9 05 | | | |
| | 09 18 | | 65 00 40 \| 19 00 12 \| — 9 06 | | | |
| | 11 19 | | 64 42 00 \| 02 12 \| — 9 07 | | | |
| ☉ 20 | 15 10 26 | 15 02 01 | Lunæ limb. prox. à Palilicio — | 62 33 55 | 1498 90 | 62 34 21 |
| | 13 23 | 04 58 | ———— rep. | 62 32 25 | 1498 40 | 62 33 05 |
| | 21 21 | 12 56 | Lunæ limbus proximus ab Algenib Pegasi ——— | 18 17 45 | 438 13 | 18 17 30 |
| ☽ in ♈ 2° 1/3 Lat. Aust. 5 1/4 | 24 23 | 15 58 | ———— rep. | 18 17 00 | 437 86 | 18 16 50 |
| | 28 43 | 20 18 | Lunæ limb. prox. à Palilicio — | 62 27 05 | 1496 22 | 62 27 36 |
| | 32 03 | 23 38 | ———— rep. | 62 25 45 | 1495 35 | 62 25 32 |
| | | | *Dist. à Vert.* \| *Hora suppus.* \| *Err. Horol.* | | | |
| | | | ° ′ ″ \| h ′ ″ \| ′ ″ | | | |
| | 19 45 07 | | 61 11 30 \| 19 36 43 \| — 8 24 | | | |
| | 47 26 | Limbi | 60 49 55 \| 39 03 \| — 8 23 | | | |
| | 49 34 | Solis inferioris | 60 31 00 \| 41 07 \| — 8 27 | | | |
| | 51 42 | | 60 10 45 \| 43 21 \| — 8 21 | | | |
| | 53 50 | | 59 51 20 \| 45 23 \| — 8 27 | | | |
| ☽ 21 | 15 19 15 | 15 10 55 | Lunæ limb. remot. à Palilicio | 50 26 35 | 1207 81 | 50 26 15 |
| | 21 46 | 13 26 | ———— rep. | 50 25 25 | 1207 44 | 50 25 20 |
| | 27 33 | 19 13 | Lunæ limbus proximus à Mirach Andromedæ —— | 33 31 30 | 802 49 | 33 31 06 |
| ☽ in ♉ 14° 1/2 Lat. Aust. 5 1/6 | 29 21 | 21 01 | ———— rep. | 33 31 00 | 802 44 | 33 30 58 |
| | 34 01 | 25 41 | Lunæ limb. rem. à Palilicio — | 50 21 00 | 1205 45 | 50 20 21 |
| | 35 25 | 27 05 | ———— rep. | 50 20 15 | 1205 40 | 50 20 13 |
| ♂ Aug. 5 | 3 08 33 | 3 02 36 | Lunæ limbus prox. à Solis proximo ——— | 61 35 30 | 1475 52 | 61 35 51 |
| | 10 32 | 04 32 | Lunæ limbus prox. à Solis remoto ——— | 62 07 15 | 1488 35 | 62 07 56 |
| | 12 44 | 06 44 | ———— rep. | 62 08 15 | 1488 70 | 62 08 46 |
| | | | *Dist. à Vert.* \| *Hora suppus.* \| *Err. Horol.* | | | |
| | | | ° ′ ″ \| h ′ ″ \| ′ ″ | | | |
| | 19 58 07 | | 63 31 50 \| 19 53 05 \| — 5 02 | | | |
| ☉ 10 | 20 00 22 | Sol. limbi inferioris | 63 11 30 \| 55 20 \| — 5 02 | | | |
| | 02 32 | | 62 52 30 \| 57 27 \| — 5 05 | | | |
| | 04 44 | | 62 32 50 \| 59 39 \| — 5 05 | | | |
| | 07 11 | | 62 11 00 \| 20 02 05 \| — 5 06 | | | |

| Anno Christi 1684. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ♂ Aug. 12 | 8 42 46 | 8 37 51 | Lunæ limbus Proximus à Sagittarii π | 22 53 15 | 547 90 | 22 53 10 | |
| | 48 34 | 43 39 | rep. | 22 56 10 | 548 94 | 22 55 48 | |
| | 51 06 | 46 11 | iter. | 22 57 10 | 549 36 | 22 56 51 | |
| ♂ 19 | 16 22 07 | 16 17 57 | Lunæ limb. prox. à Palilicio | 30 14 10 | 723 85 | 30 14 12 | |
| | 24 07 | 19 57 | rep. | 30 13 30 | 723 55 | 30 13 27 | ☽ in ♉ 4°½ Lat. Aust. 5¼ |
| | 25 42 | 21 32 | iter. | 30 12 40 | 723 26 | 30 12 42 | |
| | 32 15 | 28 05 | Lunæ limb. rem. à lucida Arietis | 15 37 50 | 374 44 | 15 37 57 | |
| | 34 17 | 30 07 | rep. | 15 37 40 | 374 40 | 15 37 51 | |
| | 41 29 | 36 19 | Lunæ limb. prox. à Palilicio | 30 07 30 | 721 34 | 30 07 52 | |
| | 42 45 | 38 35 | rep. | 30 06 45 | 721 04 | 30 07 07 | |
| | | | Dist. à Vert. ° ′ ″ · Hora supp. h ′ ″ · Err. Horol. ′ ″ | | | | |
| | 19 58 33 | | 65 49 30 · 19 54 26 · — 4 07 | | | | |
| | 20 00 36 | Limbi Solis inferioris | 65 31 30 · 56 27 · — 4 09 | | | | |
| | 02 52 | | 65 11 10 · 58 45 · — 4 07 | | | | |
| | 05 06 | | 64 51 40 · 20 00 57 · — 4 09 | | | | |
| | 07 22 | | 64 32 00 · 03 12 · — 4 10 | | | | |
| ♀ 29 | 20 08 37 | Limbi Solis inferioris | 67 20 00 · 20 04 39 · — 3 58 | | | | |
| | 10 47 | | 67 01 30 · 06 48 · — 3 59 | | | | |
| | 13 11 | | 66 41 30 · 09 08½ · — 4 02 | | | | |
| ♂ Sept. 9 | 7 42 49 | 7 38 39 | Lunæ limb. prox. ab ultima in Capite Sagittarii π | 31 56 35 | 764 54 | 31 56 12 | |
| | 45 17 | 41 07 | rep. | 31 57 35 | 764 95 | 31 57 13 | ☽ in ♒ 13°⅚ Lat. Aust. 3¼ |
| | 54 30 | 50 20 | Lunæ limb. rem. ab Humero Aquarii præcedente | 13 21 25 | 319 84 | 13 21 21 | |
| | 56 30 | 52 20 | rep. | 13 21 05 | 319 78 | 13 21 12 | |
| | 8 01 34 | 57 24 | Lunæ limb. prox. à Sagittarii π | 32 03 55 | 767 45 | 32 03 29 | |
| | 03 24 | 59 14 | rep. | 32 04 25 | 767 55 | 32 03 42 | |
| | 11 53 | 8 07 43 | Humerus Aquarii præcedens à π Sagittarii | 37 39 25 | 901 71 | 37 39 15 | |
| | | | Dist. à Vert. ° ′ ″ · Hora supp. h ′ ″ · Err. Horol. ′ ″ | | | | |
| ♃ 11 | 20 13 10 | Sol. limbi inferioris | 70 51 10 · 8 09 02 · — 4 08 | | | | |
| | 15 28 | | 70 31 20 · 11 25 · — 4 13 | | | | |
| | 18 05 | | 70 10 50 · 13 53 · — 4 12 | | | | |
| ☽ 15 | 17 24 25 | 17 19 30 | Lunæ limb. prox. à Palilicio | 33 35 05 | 804 09 | 33 35 06 | |
| | 26 14 | 21 19 | rep. | 33 34 05 | 803 65 | 33 34 05 | |
| ☉ 21 | 16 31 10 | 16 25 10 | Lunæ limb. rem. à Palilicio | 39 06 10 | 936 41 | 39 06 05 | |
| | 32 51 | 26 51 | rep. | 39 07 00 | 936 78 | 39 07 00 | |
| | 39 09 | 33 09 | Lunæ limb. prox. à Procyone | 16 59 50 | 407 02 | 16 59 31 | ☽ in ♋ 14° Lat. Aust. 0¼ |
| | 40 38 | 34 38 | rep. | 16 59 40 | 406 91 | 16 59 15 | |
| | 44 41 | 38 41 | Lunæ limb. rem. à Palilicio | 39 11 30 | 938 55 | 39 11 27 | |
| | 46 39 | 40 39 | rep. | 39 12 10 | 938 85 | 39 12 12 | |
| | | | Dist. à Vert. ° ′ ″ · Hora supp. h ′ ″ · Err. Horol. ′ ″ | | | | |
| | 17 34 52 | | 56 51 25 · 17 28 54 · — 5 58 | | | | |
| | 37 02 | Lucidæ Arietis | 57 11 50 · 31 05 · — 5 57 | | | | |
| | 39 10 | | 57 31 30 · 33 12 · — 5 58 | | | | |

| Anno Christi 1684. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♃ Sept. 25 | 22 30 28 | 22 23 53 | Lunæ limbus proximus à Solis remoto | 32 59 00 | 789 53 | 32 58 42 |
| | 32 33 | 22 25 58 | rep. | 32 58 05 | 789 14 | 32 57 43 |
| | 34 08 | 27 33 | Lunæ limbus proximus à Solis proximo | 32 25 25 | 776 15 | 32 25 13 |
| | 36 09 | 29 34 | rep. | 32 24 45 | 775 83 | 32 24 25 |
| | | | Dist. à Vert. ° ′ ″ — Hora suppus. h. ′ ″ — Err. Horol. ′ ″ | | | |
| ☉ Octob. 5 | 8 16 03 | Lucidæ Arietis | 56 41 40 — 8 8 24 — − 7 39 | | | |
| | 18 20 | | 56 21 00 — 10 38 — − 7 42 | | | |
| | 20 26 | | 56 01 00 — 12 47 — − 7 39 | | | |
| | | | *Octobris 8 & 9 purgatis horologiis utriusq; simul indices ad tempus quam proximè æquale; composui deinde* | | | |
| | | | Dist. à Vert. ° ′ ″ — Hora suppus. h. ′ ″ — Err. Horol. ′ ″ | | | |
| ♃ 9 | 8 17 26 | Lucidæ Arietis | 50 54 50 — 8 31 06 — + 13 40 | | | |
| | 19 25 | | 50 36 40 — 33 06 — + 13 41 | | | |
| | 21 17 | | 50 20 00 — 34 57 — + 13 40 | | | |
| | 23 26 | | 50 00 30 — 37 07 — + 13 41 | | | |
| ♂ 14 | 17 54 29 | 18 05 43 | Lunæ limb. prox. à Palilicio | 12 50 15 | 307 51 | 12 50 29 |
| | 56 51 | 08 03 | rep. | 12 49 05 | 307 11 | 12 49 29 |
| ☽ in ♉ 22°½ Lat. Aust. 4 | 18 02 02 | 13 14 | Lunæ limbus remotus ab Alamech Andromedæ | 34 22 40 | 822 90 | 34 22 09 |
| | 03 35 | 14 47 | rep. | 34 22 55 | 823 01 | 34 22 25 |
| | 09 52 | 21 04 | Lunæ limbus prox. à Palilicio | 12 44 00 | 304 98 | 12 44 09 |
| | 11 54 | 23 06 | rep. | 12 42 55 | 304 59 | 12 43 10 |
| | | | Dist. à Vert. ° ′ ″ — Hora suppus. h. ′ ″ — Err. Horol. ′ ″ | | | |
| ☉ 19 | 7 33 24 | Lucidæ Arietis | 52 27 50 — 7 42 32 — + 9 08 | | | |
| | 35 20 | | 52 10 10 — 44 28 — + 9 08 | | | |
| | 37 24 | | 51 51 30 — 46 32 — + 9 08 | | | |
| | 16 48 42 | 16 57 42 | Lunæ limb. remot. à Calce Castoris | 22 15 30 | 532 92 | 22 15 32 |
| | 50 55 | 59 55 | rep. | 22 16 30 | 533 38 | 22 16 42 |
| | 54 12 | 17 03 12 | Lunæ limb. remot. à Castore | 11 54 55 | 285 33 | 11 54 57 |
| ☽ in ♋ 23° Lat. Bor. 0½ | 56 09 | 05 09 | rep. | 11 55 35 | 225 52 | 11 55 25 |
| | 17 00 07 | 09 07 | Lunæ limb. remot. à Calce Castoris | 22 20 00 | 534 66 | 22 19 55 |
| | 02 08 | 11 08 | rep. | 22 20 30 | 534 97 | 22 20 42 |
| ♃ Dec. 11 | | | *Eclipsin Lunæ partialem hujus vesperi* Grenovici *videre non licuit propter densas nubes; at* Parisiis *observavit Dominus* Cassinus *in Observatorio.* | | | |
| | | | h ′ ″ | | | |
| | | | Initium — 9 28 40 | | | |
| | | | Occultatio μ ♊ — 9 34 28 | | | |
| | | | Stellæ ejusd. Emerf. 10 08 33 | | | |
| | | | Eclipsis finem — 12 24 12 | | | |

| Anno Christi. 1684. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' " | Tempora ex Altitudinibus Correcta. h. ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ♃ Dec. 11 | | | *D. De la Hire ibidem in Observatorio Regio.*<br>h ' "<br>Initium ——— 9 29 20<br>Umbra per Ariſtarch. 9 39 30<br>Per Medium Kepleri 9 53 30<br>Grimaldum ——— 10 04 30<br>Plinium ——— 10 13 50<br>Dioniſium ——— 10 23 00<br>Diameter in Merid. 30 36<br>Ariſtarch. ——— 11 29 30<br>Keplerum ——— 11 33 20<br>Heraclidem ——— 11 46 30<br>Dioniſium ——— 11 54 00<br>Finem ——— 12 26 00<br>Stella μ ♊ Occult. 9 34 46<br>Liberata ——— 10 08 25<br>Maxima Obſcuratio 20 46 | | | | |
| Anno Christi MDCLXXXV. | | | Diſt. à Vert. ° ' " · Hora Supput. h ' " · Err. Horol. ' " | | | | |
| ♀ Mar. 27 | 20 17 43<br>20 22<br>22 57 | Sol. limbi inferioris | 62 24 50 · 20 27 04 · + 9 21<br>62 02 10 · 29 47 · + 9 25<br>61 40 30 · 32 16 · + 9 19 | | | | |
| ♂ 31 | 8 10 24 | 8 20 21 | Lunæ limb. remot. à Regulo | 48 28 10 | 1160 71 | 48 28 10 | |
| | 14 44 | 24 41 | ——— rep. | 48 26 30 | 1160 07 | 48 26 40 | |
| | 24 03 | 34 00 | Lunæ limbus remotus à Procyone | 21 29 45 | 514 67 | 21 29 42 | |
| | 26 12 | 36 09 | ——— rep. | 21 28 55 | 514 34 | 21 28 52 | ☽ in ♋ 7°½ Lat. Bor. 0 |
| | 34 48 | 44 45 | Lunæ limbus remotus à Regulo iterum | 48 17 50 | 1156 71 | 48 18 13 | |
| | 37 47 | 47 44 | ——— rep. | 48 17 10 | 1156 44 | 48 17 33 | |
| | | | Diſt. à Vert. ° ' " · Hora ſupput. h ' " · Err. Horol. ' " | | | | |
| ♄ Apr. 4 | 19 42 48<br>46 36<br>48 52 | Limbi Solis inferioris. | 64 55 30 · 19 53 28 · + 10 40<br>64 21 30 · 57 16 · + 10 40<br>64 01 30 · 59 31 · + 10 39 | | | | |
| ☉ 5 | 8 24 48 | 8 35 33 | Lunæ limb. prox. à Regulo | 17 00 15 | 407 22 | 17 00 03 | |
| | 27 27 | 38 12 | ——— rep. | 17 01 05 | 407 64 | 17 01 06 | |
| | | | Diſt. à Vert. ° ' " · Hora ſupput. h ' " · Err. Horol. ' " | | | | |
| ☿ 29 | 19 41 30<br>43 45<br>45 46 | Limbi Solis inferioris | 59 21 40 · 19 50 05 · + 8 35<br>59 01 10 · 52 19 · + 8 34<br>58 42 10 · 54 23 · + 8 37 | | | | |
| ☉ Maii 3 | 8 40 41 | 8 47 46 | Lunæ limb. prox. à Regulo | 25 15 05 | 604 70 | 25 15 30 | |
| | 43 07 | 50 12 | ——— rep. | 25 16 15 | 605 12 | 25 16 33 | |
| | | | Diſt. à Vert. ° ' " · Hora ſupput. h ' " · Err. Horol. ' " | | | | |
| | 19 38 58<br>40 37<br>42 48 | Limbi Solis inferioris | 59 17 30 · 19 45 49 · + 6 51<br>59 01 40 · 47 33 · + 6 56<br>58 42 20 · 49 40 · + 6 52 | | | | |

| Anno Christi 1685. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Dist. à Vert. ° ′ ″ | Hora supput. h. ′ ″ | Err. Horol. ′ ″ | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|---|
| ♃ Maii 7 | 9 54 46 | 9 59 46 | Lunæ limbus proximus à Spica Virginis | | | | 30 59 40 | 741 90 | 30 59 35 |
| | 57 28 | 10 02 28 | rep. | | | | 31 01 10 | 742 51 | 31 01 06 |
| ♄ 16 | 19 32 41 | Sol. limbi inferioris | | 59 21 50 | 19 32 24 | — 0 17 | | | |
| | 35 54 | | | 58 50 40 | 35 44 | — 0 10 | | | |
| | 39 26 | | | 58 18 40 | 39 11 | — 0 15 | | | |
| ☉ 17 | 20 47 22 | 20 46 37 | Lunæ limbus proximus à Solis proximo | | | | 53 02 10 | 1270 03 | 53 02 09 |
| | 50 41 | 49 56 | rep. | | | | 53 01 00 | 1269 69 | 53 01 18 |
| | 55 05 | 54 20 | Lunæ limbus proximus à Solis remoto | | | | 53 30 50 | 1281 58 | 53 31 02 |
| | 56 45 | 56 00 | rep. | | | | 53 30 05 | 1281 30 | 53 30 20 |
| ♀ 22 | 19 16 12 | Sol. limbi inferioris | | 61 45 30 | 19 12 50 | — 3 22 | | | |
| | 17 48 | | | 61 30 50 | 14 24 | — 3 24 | | | |
| | 19 39 | | | 61 12 50 | 16 20 | — 3 19 | | | |
| | 22 07 | | | 60 50 30 | 18 43 | — 3 24 | | | |
| ☿ Aug. 26 | 19 59 15 | Sol. limbi inferioris. | | 66 21 10 | 20 04 32 | + 5 17 | | | |
| | 20 01 43 | | | 66 00 10 | 06 58 | + 5 15 | | | |
| | 03 46 | | | 65 41 40 | 09 06 | + 5 20 | | | |
| ☿ Sept. 2 *vel* ♃ 3 *mane* | 19 51 45 | Limbi Solis inferioris | | 69 11 40 | 19 59 56 | + 8 01 | | | |
| | 54 18 | | | 68 52 00 | | | | | |
| | 56 40 | | | 68 31 10 | 20 04 37 | + 7 57 | | | |
| | 58 58 | | | 68 11 30 | | | | | |
| | 20 01 17 | | | 67 52 10 | 09 11 | + 7 54 | | | |
| ♀ Oct. 2 | 7 54 55 | Lucidæ Arietis | | 58 02 20 | 8 11 53 | + 16 58 | | | |
| | 57 10 | | | 57 41 40 | 14 01 | + 16 51 | | | |
| | 59 20 | | | 57 21 30 | 16 16 | + 16 56 | | | |
| | 10 05 02 | 10 21 58 | Lunæ limbus proximus à Lucida Plejadum | | | | 30 42 05 | 735 10 | 30 42 30 |
| | 07 19 | 24 15 | rep. | | | | 30 41 25 | 734 78 | 30 41 39 |
| | 11 29 | 28 25 | Lunæ limbus remotus à Capite Andromedæ | | | | 34 33 25 | 827 20 | 34 32 54 |
| | 13 11 | 30 07 | rep. | | | | 34 33 25 | 827 26 | 34 33 03 |
| ☽ in ♈ 26 Lat. Aust. 5 | 16 48 | 33 44 | Lunæ limbus proximus à Lucida Plejadum | | | | 30 37 45 | 733 46 | 30 38 21 |
| | 18 49 | 35 45 | rep. *Aufer utriusque temporibus 0′ 19″* | | | | 30 36 55 | 733 06 | 30 37 20 |
| ♃ 22 | 5 46 14 | 6 04 29 | Lunæ limbus remotus à Lucida in Sura Aquarii | | | | 47 47 40 | 1144 46 | 47 47 31 |
| | 50 33 | 08 38 | rep. | | | | 47 45 30 | 1143 65 | 47 45 31 |

| Anno Christi 1685. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | | | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochlea Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ ″ | Hor. suppут. h ′ ″ | Err. Horol. ′ ″ | | | | |
| ☿ Oct. 22 | 6 14 36 | | 61 33 30 | 6 32 51 | +18 15 | | | | |
| | 16 57 | | 61 11 40 | 35 12 | +18 15 | | | | |
| | 19 06 | Lucidæ | 60 52 00 | 37 18 | +18 12 | | | | |
| | 21 40 | Arietis | 60 27 40 | 39 53 | +18 13 | | | | |
| | 23 24 | | 60 11 10 | 41 40 | +18 16 | | | | |
| ♀ 30 | 6 10 18 | | 57 30 40 | 6 27 05 | +16 47 | | | | |
| | 12 26 | | 57 10 40 | 29 15 | +16 49 | | | | |
| | 14 23 | Lucidæ | 56 52 40 | 31 10 | +16 47 | | | | |
| | 16 44 | Arietis | 56 30 50 | 33 33 | +16 49 | | | | |
| | 18 46 | | 56 11 30 | 35 32 | +16 46 | | | | |
| | 9 03 04 | 9 19 52 | Lunæ limb. prox. ab Aldebaran | | | 31 17 50 | 749 22 | 31 17 53 | |
| | 06 28 | 23 14 | ——— rep. | | | 31 17 10 | 748 87 | 31 17 00 | ☽ in ♉ 3° ½ Lat. Aust. 3½ |
| | 13 05 | 29 53 | Lunæ limb. rem. à lucida Arietis | | | 14 07 30 | 338 16 | 14 07 12 | |
| | 15 12 | 32 00 | ——— rep. | | | 14 07 10 | 338 02 | 14 06 51 | |
| | 18 50 | 35 38 | Lunæ limb. prox. à Palilicio | | | 31 12 10 | 746 86 | 31 11 58 | |
| | 21 22 | 38 10 | ——— rep. | | | 31 11 20 | 746 58 | 31 11 17 | |
| ♄ 31 | 9 07 21 | 9 23 49 | Lunæ limb. rem. à Palilicio | | | 19 08 15 | 458 32 | 19 08 05 | |
| | 10 27 | 26 55 | ——— rep. | | | 19 06 55 | 457 74 | 19 06 38 | |
| | 17 32 | 34 00 | Lunæ limb. prox. à Mandibula Ceti | | | 11 01 40 | 263 96 | 11 01 28 | ☽ in ♉ 16° ⅔ Lat. Aust. 3⅓ |
| | 20 40 | 37 08 | ——— rep. | | | 11 02 40 | 264 42 | 11 02 37 | |
| | 26 00 | 42 28 | Lunæ limb. rem. à Palilicio | | | 19 00 55 | 455 40 | 19 00 45 | |
| | 28 01 | 44 29 | ——— rep. | | | 19 00 05 | 455 11 | 19 00 00 | |
| | 30 14 | 46 42 | Palilicium à Mandibula Ceti | | | 26 07 20 | 625 15 | 26 07 03 | |
| | | | Dist. à Vert. ° ′ ″ | Hora supput. h ′ ″ | Err. Horol. ′ ″ | | | | |
| ♀ Nov. 6 | 6 08 29 | | 53 41 20 | 6 23 09 | +14 40 | | | | |
| | 10 35 | | 53 21 50 | | | | | | |
| | 12 44 | Lucidæ | 53 02 30 | 6 27 24 | +14 40 | | | | |
| | 15 02 | Arietis | 52 41 40 | | | | | | |
| | 17 18 | | 52 20 30 | 6 31 50 | +14 32 | | | | |
| | 17 00 02 | 17 14 32 | Lunæ limbus rem. à Calce Castoris | | | 31 06 00 | 744 64 | 31 06 25 | |
| | 02 30 | 17 00 | ——— rep. | | | 31 07 00 | 745 00 | 31 07 20 | |
| | 10 10 | 24 40 | Lunæ limb. prox. à Clara seq. in Capite Hydræ ζ | | | 16 15 00 | 389 26 | 16 15 55 | ☽ in ♌ 1° ½ Lat. Bor. 3. |
| | 13 45 | 18 15 | ——— rep. | | | 16 14 10 | 388 86 | 16 14 03 | |
| | 18 25 | 32 55 | Lunæ limb. rem. à Calce Castoris | | | 31 12 40 | 747 26 | 31 12 58 | |
| | 20 23 | 34 53 | ——— rep. | | | 31 13 30 | 747 61 | 31 13 51 | |
| | 25 33 | 40 03 | Calx Castoris à Clara sequente in Capite Hydræ ζ | | | 40 19 30 | 965 47 | 40 18 58 | |
| | | | Dist. à Vert. ° ′ ″ | Hora supp. h ′ ″ | Err. Horol. ′ ″ | | | | |
| ☽ 23 | 4 49 58 | | 56 01 00 | 4 57 21 | + 7 23 | | | | |
| | 51 58 | | 55 41 50 | | | | | | |
| | 54 20 | Lucidæ | 55 20 30 | 5 01 37 | + 7 17 | | | | |
| | 56 16 | Arietis | 55 02 20 | | | | | | |
| | 58 25 | | 54 42 10 | 05 46 | + 7 21 | | | | |

| | Anno Christi 1685. Styl. Vet. | Tempora per Horologium Oscillatorium h. ' '' | Tempora ex Altitudinibus Correcta. h. ' '' | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' '' | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' '' |
|---|---|---|---|---|---|---|---|
| | ☽ Nov. 23 | 5 29 35 | 5 36 55 | Lunæ limb. rem. à lucida Arietis | 44 51 30 | 1074 72 | 44 51 40 |
| | | 31 20 | 38 40 | rep. | 44 50 40 | 1073 94 | 44 50 44 |
| ☽ in ♓ 21°½ Lat. Aust. 6. | | 37 06 | 44 26 | Lunæ limb. prox. ab Ore Pegasi | 36 30 10 | 873 94 | 36 29 48 |
| | | 38 51 | 46 11 | rep. | 36 30 30 | 874 07 | 36 30 07 |
| | | 42 21 | 49 41 | Lunæ limb. rem. à lucida Arietis | 44 46 10 | 1072 12 | 44 46 10 |
| | | 44 43 | 52 03 | rep. | 44 45 10 | 1071 86 | 44 45 02 |
| | ☿ 25 | 6 20 34 | 6 25 19 | Lunæ limb. rem. à lucida Plejadum | 39 30 10 | 945 81 | 39 29 39 |
| | | 23 20 | 28 05 | rep. | 39 29 10 | 945 38 | 39 28 55 |
| ☽ in ♈ 17°½ Lat. Aust. 5½ | | 28 48 | 33 33 | Lunæ limb. prox. à Capite Andromedæ | 31 42 20 | 759 20 | 31 42 51 |
| | | 31 28 | 36 13 | rep. | 31 42 10 | 758 96 | 31 42 |
| | | 35 16 | 40 01 | Lunæ limb. rem. à lucida Plejadum | 39 24 25 | 943 49 | 39 23 51 |
| | | 38 15 | 43 00 | rep. | 32 23 35 | 943 15 | 39 23 00 |
| | | 43 15 | 48 00 | Lucida Plejadum à Capite Andromedæ | 48 48 20 | 1168 86 | 48 48 42 |

| Tempora per Horologium Oscillatorium h. ' '' | | Dist. à Vert. ° ' '' | Hora supp. h ' '' | Err. Horol. ' '' |
|---|---|---|---|---|
| 7 25 44 | | 58 20 10 | 7 30 26 | + 4 42 |
| 27 56 | | 58 01 30 | 32 31 | + 4 35 |
| 30 00 | Palilicii | 57 43 10 | 34 37 | + 4 37 |
| 32 32 | | 57 20 30 | | |
| 35 40 | | 56 52 20 | | |

| | Anno Christi 1685. | Tempora per Horologium Oscillatorium | Tempora ex Altitudinibus Correcta. | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. | Revol. Cent. | ° ' '' |
|---|---|---|---|---|---|---|---|
| | ☉ Dec. 6 | 17 37 36 | 17 30 26 | Lunæ limb. rem. à Polluce | 46 27 10 | 1112 20 | 46 26 40 |
| | | 39 43 | 32 33 | rep. | 46 27 50 | 1112 46 | 46 27 20 |
| ☽ in ♍ 5°½ Lat. Bor. 5 | | 45 32 | 38 22 | Lunæ limb. rem. à lucida in Lumbis Leonis | 09 38 00 | 230 70 | 09 38 14 |
| | | 48 44 | 41 34 | rep. | 09 38 20 | 230 78 | 09 38 25 |
| | | 54 05 | 46 55 | Lunæ limb. rem. à Polluce | 46 33 20 | 1114 71 | 46 32 58 |
| | | 56 19 | 49 09 | rep. | 46 34 10 | 1115 01 | 46 33 43 |
| | | 59 04 | 51 54 | Pollux à lucida in Lumbis Leonis | 47 43 50 | 1143 45 | 47 44 58 |
| | ☽ 7 | 17 58 29 | 17 50 17 | Lunæ limb. rem. ab η Leonis | 24 51 25 | 595 03 | 24 51 16 |
| | | 18 01 20 | 53 08 | rep. | 24 52 50 | 595 54 | 24 50 02 |
| ☽ in ♍ 18°½ Lat. Bor. 4½ | | 05 58 | 57 46 | Lunæ limb. rem. à Cauda Leonis | 07 56 10 | 189 88 | 07 56 01 |
| | | 08 37 | 18 00 25 | rep. | 07 56 15 | 189 92 | 07 56 07 |
| | | 13 36 | 05 24 | Lunæ limb. rem. ab η Leonis | 24 57 35 | 597 39 | 24 57 10 |
| | | 16 33 | 08 21 | rep. | 24 58 50 | 597 94 | 24 58 33 |
| | | 20 56 | 12 44 | Cauda Leonis ab ejusdem η | 24 36 25 | 589 16 | 24 36 33 |

| Anno Christi 1685. | Tempora per Horologium Oscillatorium | | Dist. à Vert. ° ' '' | Hora supp. h ' '' | Err. Horol. ' '' |
|---|---|---|---|---|---|
| ♂ 8 | 5 48 39 | | 66 31 40 | | |
| | 50 57 | | 66 10 30 | | |
| | 52 54 | Palilicii | 65 51 30 | 5 44 13 | — 8 41 |
| | 55 01 | | 65 32 10 | 46 18 | — 8 43 |
| | 57 14 | | 65 11 10 | 48 33 | — 8 41 |

| Anno Christi 1686. Styl. Vet. | Tempora per Horologium Oscillatorium. h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|---|---|
| | | | *Reductis indicibus 30 Min.* | | | | | | |
| | | | *Dist. à Vert.* ° ′ ″ | *Hora suppt.* h ′ ″ | *Err. Horol.* ′ ″ | | | | |
| ☉Jan. 10 | 5 55 32 | | 52 21 40 | 5 53 47 | — 1 45 | | | | |
| | 57 44 | | 53 01 20 | 55 59 | — 1 45 | | | | |
| | 59 54 | Calcis | 52 41 40 | 58 07 | — 1 47 | | | | |
| | 6 02 07 | Castoris | 52 21 20 | | | | | | |
| | 04 15 | | 52 01 40 | | | | | | |
| ♃ 21 | 6 43 41 | 6 37 11 | Lunæ lim. rem. à Calce Castoris | | | 43 46 20 | 1047 94 | 43 45 39 | |
| | 47 00 | 40 30 | rep. | | | 43 45 05 | 1047 49 | 43 44 30 | |
| | 54 34 | 48 04 | Lunæ limb. rem. ab Algol Medusæ | | | 26 04 40 | 624 19 | 26 04 22 | |
| | 57 19 | 50 49 | rep. | | | 26 04 30 | 624 13 | 26 04 13 | ☽ in ♉ 17°½ Lat. Aust. 3. |
| | 7 03 02 | 56 32 | Lunæ limb. rem. à Calce Castoris | | | 43 39 10 | 1045 13 | 43 38 36 | |
| | 08 24 | 7 01 54 | rep. | | | 43 37 20 | 1044 39 | 43 36 39 | |
| | 11 08 | 04 38 | iter. | | | 43 36 10 | 1043 97 | 43 35 40 | |
| | 18 01 | 11 31 | Calx Castoris ab Algol Medusæ | | | 44 38 10 | 1068 95 | 44 38 13 | |
| | | | *Dist. à Vert.* ° ′ ″ | *Hora suppt.* h ′ ″ | *Err. Horol.* ′ ″ | | | | |
| | 9 44 44 | | 62 00 20 | 9 38 12 | — 6 32 | | | | |
| | 47 02 | Lucidæ | 62 21 40 | 40 29 | — 6 33 | | | | |
| | 49 13 | Arietis | 62 42 10 | 42 40 | — 6 33 | | | | |
| ☽ 25 | 9 06 34 | 8 58 04 | Lunæ limb. prox. à Palilicio | | | 31 17 55 | 749 35 | 31 18 12 | |
| | 08 55 | 9 00 25 | rep. | | | 31 18 50 | 749 69 | 31 19 03 | |
| | 14 22 | 05 52 | Lunæ limb. rem. à Procyone | | | 23 02 00 | 551 27 | 23 01 39 | |
| | 16 48 | 08 18 | rep. | | | 23 01 35 | 551 06 | 23 01 07 | ☽ in ♋ 6°½ Lat. Bor. 1½. |
| | 21 10 | 12 40 | Lunæ limb. prox. à Palilicio | | | 31 23 10 | 751 47 | 31 23 30 | |
| | 23 28 | 14 58 | rep. | | | 31 23 55 | 751 76 | 31 24 13 | |
| | 30 16 | 21 46 | Palilicium à Procyone | | | 46 20 10 | 1109 49 | 46 19 52 | |
| | | | *Dist. à Vert.* ° ′ ″ | *Hora suppt.* h ′ ″ | *Err. Horol.* ′ ″ | | | | |
| | 52 14 | | 65 23 30 | 9 43 49 | — 8 25 | | | | |
| | 53 40 | Lucidæ | 65 36 10 | 45 10 | — 8 30 | | | | |
| | 56 22 | Arietis | 66 01 10 | 47 51 | — 8 31 | | | | |
| | 58 32 | | 66 21 10 | 50 00 | — 8 32 | | | | |
| ☽Feb. 15 | 21 00 00 | Limbi | 73 31 10 | 20 43 23 | —16 17 | | | | |
| | 02 43 | Solis in- | 73 10 30 | 46 20 | —16 23 | | | | |
| | 05 53 | ferioris | 72 51 10 | 48 58 | —16 35 | | | | |
| ♂ 16 | 6 45 50 | 6 29 10 | Lunæ limb. rem. à Palilicio | | | 35 30 50 | 850 37 | 35 30 51 | |
| | 48 30 | 31 50 | rep. | | | 35 29 35 | 849 92 | 35 29 44 | |
| | 54 50 | 38 10 | Lunæ limb. prox. à Cingulo Andromedæ | | | 29 56 30 | 716 66 | 29 56 08 | |
| | 57 40 | 41 00 | rep. | | | 29 56 25 | 716 63 | 29 56 03 | ☽ in ♉ 0° Lat. Aust. 4. |
| | 7 01 50 | 45 10 | Lunæ limb. rem. à Palilicio | | | 35 23 50 | 847 61 | 35 23 55 | |
| | 04 40 | 48 00 | rep. | | | 35 22 40 | 847 12 | 35 22 42 | |
| | | | *Tempora notata fuere ab Horologio ambulatorio quibus propterea haud nimium fidas certa sunt ad minutum temporis vix proprius.* | | | | | | |

| Anno Christi 1686. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta h ′ ″ | LUNÆ DISTANTIÆ à FIXIS | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Feb. 20 | 9 06 58 | 8 48 23 | Lunæ limb. rem. à Calce Castoris | 10 59 15 | 262::68 | 10 58 15 |
| | 09 19 | 50 44 | rep. | 10 58 20 | 262 63 | 10 58 07 |
| | 15 40 | 57 05 | Lunæ limb. prox. à Cornu Tauri Boreo | 05 27 55 | 130 60 | 05 27 29 |
| ☽ in ♊ 20°; Lat. Bor. 0. | 18 28 | 59 53 | rep. | 05 28 05 | 130 68 | 05 27 40 |
| | 23 31 | 9 04 56 | Lunæ lim. rem. à Calce Cast. | 10 53 00 | 260 50 | 10 52 48 |
| | 25 42 | 07 07 | rep. | 10 52 10 | 260 21 | 10 52 05 |
| | 30 09 | 11 34 | Cornu Tauri Boreo à Calce Castoris | 14 09 30 | 339 02 | 14 09 14 |
| | | | Dist. à Vert. ° ′ ″ / Hora supput. h ′ ″ / Err. Horol. ′ ″ | | | |
| | 20 55 23 | | 72 43 10 / 20 36 37 / —18 46 | | | |
| | 58 37 | Limbi Solis inferioris | 72 19 40 / 39 46 / —18 51 | | | |
| | 21 01 40 | | 71 56 50 / 42 48 / —18 52 | | | |
| | 03 51 | | 71 40 30 / 49 00 / —18 51 | | | |
| | 06 26 | | 71 21 40 / 47 35 / —18 51 | | | |
| ☉ 21 | 6 53 16 | 6 34 13 | Lunæ limb. rem. à Polluce | 18 36 40 | 445 66 | 18 36 06 |
| | 55 42 | 36 39 | rep. | 18 35 55 | 445 42 | 18 35 45 |
| ☽ in ♋ 1°½ Lat. Bor. 1 | 7 01 10 | 42 07 | Lunæ limb. rem. à lucido pede Geminorum γ | 08 43 20 | 208 63 | 08 42 58 |
| | 03 21 | 44 18 | rep. | 08 43 05 | 208 57 | 08 42 50 |
| | 08 31 | 49 28 | Lunæ limb. rem. à Polluce | 18 31 30 | 443 65 | 18 31 10 |
| | 10 38 | 51 35 | rep. | 18 30 50 | 443 42 | 18 30 45 |
| ♂ 23 | 9 05 00 | 8 45 25 | Lunæ limb. prox. à Calce Castoris | 25 18 10 | 605 89 | 25 18 30 |
| | 07 10 | 47 35 | rep. | 25 19 00 | 606 24 | 25 19 22 |
| | 11 47 | 52 12 | Lunæ limb. prox. à Castore | 12 18 05 | 294 50 | 12 17 44 |
| ☽ in ♋ 26°; Lat. Bor. 3 | 13 32 | 53 57 | rep. | 12 18 40 | 294 69 | 12 18 22 |
| | 17 03 | 57 28 | Lunæ lim. prox. à Calce Cast. | 25 22 40 | 607 69 | 25 23 00 |
| | 19 26 | 59 51 | rep. | 25 23 25 | 607 96 | 25 23 40 |
| ♃ 25 | 8 47 00 | 8 26 50 | Lunæ limb. prox. à Calce Castoris | 49 53 00 | 1194 35 | 49 52 32 |
| | 49 54 | 29 44 | rep. | 49 54 10 | 1194 78 | 49 53 36 |
| ☽ in ♌ 21° Lat. Bor. 4. | 54 10 | 34 00 | Lunæ limb. rem. à Regulo | 06 09 20 | 147 20 | 06 09 05 |
| | 56 14 | 36 04 | rep. | 06 08 55 | 146 96 | 06 08 28 |
| | 9 00 53 | 40 43 | Lunæ lim. prox. à Calce Cast. | 49 58 10 | 1196 57 | 49 58 05 |
| | 03 02 | 42 52 | rep. | 49 59 10 | 1196 92 | 49 58 57 |
| ♄ 27 | 10 03 23 | 9 42 33 | Lunæ limb. rem. à Regulo | 22 14 25 | 532 32 | 22 14 02 |
| | 06 01 | 45 11 | rep. | 22 15 25 | 532 72 | 22 15 03 |
| ☽ in ♍ 17° Lat. Bor. 4½ | 12 41 | 51 51 | Lunæ limb. prox. à Cauda Leonis | 07 29 15 | 179 18 | 07 29 12 |
| | 14 46 | 53 56 | rep. | 07 27 50 | 178::60 | 07 27 45 |
| | 20 05 | 59 15 | Lunæ limb. rem. à Regulo | 22 22 25 | 535 49 | 22 22 00 |
| | 22 28 | 10 01 38 | rep. | 22 23 25 | 535 91 | 22 23 03 |
| | | | Dist. à Vert. ° ′ ″ / Hora supput. h ′ ″ / Err. Horol. ′ ″ | | | |
| ☉ 28 vel | 20 36 34 | | 72 51 10 / 20 15 23 / —21 11 | | | |
| | 39 32 | Limbi Solis inferioris | 72 28 30 / 18 16 / —21 16 | | | |
| ☽ 29 mane | 42 18 | | 72 06 50 | | | |
| | 44 22 | | 71 49 10 / 23 05 / —21 17 | | | |
| | 46 37 | | 71 32 40 | | | |

| Anno Christi 1686. Styl. Vet. | Tempora per Horologium Oscillatorium. h ' " | Tempora ex Altitudinibus Correcta. h ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ☽ Mart. 2 | 15 23 00 | 15 01 12 | Lunæ limbus remot. à Vindemiatrice | 27 41 30 | 662 83 | 27 41 21 | |
| | 25 13 | 03 25 | rep. | 27 42 15 | 663 18 | 27 42 13 | |
| | 30 09 | 08 21 | Lunæ limbus proximus à lucida in collo Serpentis | 28 19 05 | 677 96 | 28 19 13 | ☽ in ♎ 29½ Lat. Bor. 2⅓ |
| | 32 24 | 10 36 | rep. | 28 18 50 | 677 84 | 28 18 55 | |
| | 36 47 | 14 59 | Lunæ limbus remot. à Vindemiatrice | 27 46 50 | 665 03 | 27 46 51 | |
| | 38 34 | 16 46 | rep. | 27 47 30 | 665 33 | 27 47 36 | |
| | 43 26 | 21 38 | Lucida in collo Serpentis à Vindemiatrice | 40 14 50 | 963 63 | 40 14 21 | |
| | | | Dist. à Vert. ° ' "; Hora supp. h ' "; Err. Horol. ' " | | | | |
| ☉ 7 | 20 37 35 | Limbi Solis inferioris | 70 42 00; 20 14 15; —23 20 | | | | |
| | 40 03 | | 70 22 10; 16 39; —23 24 | | | | |
| | 42 38 | | 70 00 30 | | | | |
| | 44 54 | | 69 42 50 | | | | |
| | 47 49 | | 69 18 40 | | | | |
| | | | *Post Meridiem reduxi Indices 15' & demisi perpendicula, sed vix vereor satis.* | | | | |
| | | | Dist. à Vert. ° ' "; Hor. supput. h ' "; Err. Horol. ' " | | | | |
| ☿ 17 | 20 14 31 | Limbi Solis inferioris | 68 41 50; 20 05 24; — 9 07 | | | | |
| | 17 01 | | 68 20 00; 07 57; — 9 04 | | | | |
| | 19 14 | | 68 01 10; 10 10; — 9 04 | | | | |
| | 21 35 | | 67 42 00; 12 25; — 9 10 | | | | |
| | 24 01 | | 67 28 10; 14 45; — 9 16 | | | | |
| ♃ 18 | 7 55 03 | 7 46 53 | Lunæ limbus remot. à Calce Castoris | 27 49 20 | 666 32 | | |
| | 59 27 | 51 17 | rep. | 27 47 40 | 665 62 | | |
| | 8 05 09 | 56 59 | Lunæ limb. remot. à Palilicio | 04 59 25 | 120 32 | | |
| | 07 10 | 59 00 | rep. | 04 59 10 | 120 21 | | |
| | 11 26 | 8 03 18 | Lunæ limbus remot. à Calce Castoris | 27 42 10 | 663 37 | | ☽ in ♊ 3°½ Lat. Aust. 1 |
| | 16 10 | 08 00 | rep. | 27 40 05 | 662 56 | | |
| | | | Dist. à Vert. ° ' "; Hora supput. h ' "; Err. Horol. ' " | | | | |
| ♂ 30 | 20 16 22 | Limbi Solis inferioris | 64 30 20; 20 06 34; — 9 48 | | | | |
| | 18 30 | | 64 11 40; 08 43; — 9 47 | | | | |
| | 20 56 | | 63 50 10; 11 11; — 9 45 | | | | |
| | 23 00 | | 63 32 30; 13 13; — 9 47 | | | | |
| | 23 56 | | 63 24 00; 14 12; — 9 44 | | | | |
| | | | *Occultatio Planetæ* Jovis | | | | |
| ♃ 31 | 9 42 20 | 9 32 30 | Jovis limbus tangebat limbum Lunæ Mareotidis diametrum à termino ejus Boreo. | | | | |
| | 43 32 | 33 42 | Totus tectus erat quantum per Vapores Horizontales & Undulationem limbi turbidam valde licuit conjicere. | | | | |

| Anno Christi 1686. Styl. Vet. | Tempora per Horologium Oſcillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | *LUNÆ* DISTANTIÆ à FIXIS. | Diſtantiæ per lineas diagonales. ° ′ ″ | Diſtantiæ per Cochleæ Revolutiones, cum Circuli partibus Reſpondentibus. Revol. Cent. | ° ′ ″ |
| --- | --- | --- | --- | --- | --- | --- |
| ♃ Mart. 31 | 10 21 02 | 10 11 12 | Differentia Declinationum limbi Lunæ verè Auſtrini & loci ingreſſus. *Tubo breviore* | Part. per Mic. 1546 | ′ ″ = 12 42 | |
| | 40 20 | 30 30 | Jovis particula emerſerat è regione Boreo limbi Mareotidis. | | | |
| | 41 26 | 31 36 | Jupiter totus liber. | | | |
| | 45 40 | 35 50 | Differentia Declinationum centri Jovis & limbi Lunæ verè Auſtr. | 3436 | = 28 15 | |
| | 51 30 | 41 40 | rep. | 3585 | = 29 28 | |
| | 53 50 | 44 00 | Lunæ Diameter | 3906 | = 32 07 | |
| | 55 34 | 45 44 | rep. | 3915 | = 32 11 | |
| | | | *LIPSIÆ*, *Got Kirkiano* Obſervitante. | | | |
| | | 10 30 33 | Jovis limbus tangit Lunam. | | | |
| | | 10 31 04 | Jovis Cent. ſubit. | | | |
| | | 10 31 35 | Jupiter totus tectus. | | | |
| | | 11 25 00 | Jupiter totus extinct. Honoldi juxta locum *Kirkianæ* Obſervationis obſervata. | | | |
| | | 10 31 26 | Jupiter tangit Lunam. | | | |
| | | 32 55 | Jupiter totus tectus. | | | |
| | | 11 26 10 | Jupiter exit. | | | |
| | | | *Diſt. a Vert.* ° ′ ″; *Hora ſupput.* h ′ ″; *Err. Horol.* ′ ″ | | | |
| ♄ Apr. 10 | 20 23 53 | Limbi Solis inferioris | 60 30 10; 20 12 34; —11 19 | | | |
| | 26 41 | | 60 05 30; 15 51; —10 50 | | | |
| | 28 07 | | 59 52 40; 16 49; —11 18 | | | |
| | 30 37 | | 59 30 40; 19 20; —11 17 | | | |
| ☽ 19 | 8 58 36 | 8 43 43 | Lunæ limb. remot. à Regulo | 26 19 50 | 630 49 | 26 20 12 |
| | 9 00 42 | 45 49 | rep. | 26 19 00 | 630 09 | 25 19 12 |
| ☽ in ♋ 29°⅙ Lat. Bor. 3¼ | 06 25 | 51 32 | Lunæ limbus proximus à Procyone | 20 42 10 | 495 97 | 20 42 44 |
| | 09 16 | 54 23 | rep. | 20 42 25 | 496 04 | 20 42 57 |
| | 14 27 | 59 34 | Lunæ limb. remot. à Regulo | 26 13 20 | 627 84 | 26 13 33 |
| | 16 39 | 9 01 46 | rep. | 26 12 20 | 627 46 | 26 12 36 |
| | | | *Diſt. a Vert.* ° ′ ″; *Hora ſupput.* h ′ ″; *Err. Horol.* ′ ″ | | | |
| | 19 44 58 | Limbi Solis inferioris | 64 41 10; 19 29 53; —15 05 | | | |
| | 47 04 | | 64 21 40; 32 00; —15 04 | | | |
| | 49 18 | | 64 01 10; 34 13; —15 05 | | | |
| | 51 14 | | 63 42 40; 36 13; —15 01 | | | |
| | 53 44 | | 63 20 10; 38 40; —15 04 | | | |
| ☽ Maii 17 | 19 57 08 | Limbi Solis inferioris | 58 32 30; 19 36 56; —20 12 | | | |
| | 59 28 | | 58 10 10; 39 16; —20 12 | | | |
| | 20 01 27 | | 57 51 50; 41 20; —20 07 | | | |
| | 03 42 | | 57 31 10; 43 33; —20 09 | | | |
| | 05 56 | | 57 11 00; 45 44; —20 12 | | | |
| | | | *Reduxi deinde à Miniſtro Indiculi 33′ unde error Horologii factus 12′ 50″ poſtea obſervata.* | | | |

| Anno Christi 1686. Styl. Vet. | Tempora per Horologium Oscillatorium. h ' " | Tempora ex Altitudinibus Correcta. h ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| ♂ Maij 18 | 9 33 47 | 9 46 37 | Lunæ limb. rem. à Regulo — | 06 41 10 | 159 81 | 06 40 40 | |
| | 36 26 | 49 16 | ——— rep. | 06 39 50 | 159 38 | 06 39 36 | |
| | 43 51 | 56 41 | Lunæ limb. rem. à lucida in Collo Leonis ——— | 06 53 20 | 164 84 | 06 53 16 | ☽ in ♌ 20°½ Lat. Bor. 4½ |
| | 46 09 | 58 59 | ——— rep. | 06 52 20 | 164 50 | 06 52 25 | |
| | 49 46 | 10 02 36 | Lunæ limb. rem. à Regulo — | 06 34 30 | 157 22 | 06 34 10 | |
| | 51 30 | 04 20 | ——— rep. | 06 33 55 | 156 94 | 06 33 30 | |
| ♃ 20 | 8 56 42 | 9 09 12 | Lunæ limb. rem. à Spica Virginis ——— | 35 34 35 | 851 72 | 35 34 14 | |
| | 59 08 | 11 38 | ——— rep. | 35 33 45 | 851 35 | 35 33 18 | |
| | 9 05 35 | 18 05 | Lunæ limb. rem. à Cauda Leonis ——— | 08 23 10 | 200 76 | 08 23 16 | ☽ in ♍ 14°½ Lat. Bor. 4½ |
| | 08 06 | 20 36 | ——— rep. | 08 23 00 | 200 65 | 08 23 00 | |
| | 13 18 | 25 48 | Lunæ limb. rem. à Spica iter. ——— | 35 27 30 | 848 88 | 35 27 06 | |
| | 15 21 | 27 51 | ——— rep. | 35 26 40 | 848 53 | 35 26 14 | |
| | 19 41 | 32 11 | Spica Virginis à Cauda Leonis ——— | 35 02 40 | 838 89 | 35 02 07 | |
| | | | Dist. à Vert. ° ' " / Horr. supput. h ' " / Err. Horol. ' " | | | | |
| | 19 16 15 | | 59 31 46 / 19 28 36 / +12 21 | | | | |
| | 18 30 | Limbi Solis inferioris | 59 11 10 / 30 48 / +12 18 | | | | |
| | 20 32 | | 58 51 20 / 32 55 / +12 23 | | | | |
| | 22 36 | | 58 32 30 / 34 56 / +12 20 | | | | |
| | 24 54 | | 58 11 30 / 37 12 / +12 18 | | | | |
| ☉ Sept. 12 | 20 12 38 | Limbi Solis inferioris | 71 51 20 / 20 03 00 / — 9 38 | | | | |
| | 15 10 | | 71 30 20 / 05 32 / — 9 38 | | | | |
| | 17 25 | | 71 11 40 / 07 45 / — 9 40 | | | | |
| ♃ 16 | 8 18 19 | | Lunæ limb. rem. à Clara seq. in Cauda Capricorni | 22 02 30 | 527 77 | 22 02 36 | |
| | 21 04 | | ——— rep. | 22 01 35 | 527 37 | 22 01 36 | |
| | 27 02 | | Lunæ limb. prox. ab Aquilæ Lucida ——— | 34 39 10 | 829 54 | 34 38 45 | ☽ in ♑ 27°¾ Lat. Aust. 5½ |
| | 29 09 | | ——— rep. | 34 39 10 | 829 51 | 34 38 40 | |
| | 34 09 | | Lunæ limb. rem. à Clara seq. in Cauda Capricorni | 21 55 25 | 524 96 | 21 55 33 | |
| | 37 04 | | ——— rep. | 21 54 25 | 524 58 | 21 54 36 | |
| | 45 13 | | Inter Fixas Aquilæ & Capricorni ——— | 38 05 10 | 911 80 | 38 04 30 | |
| | | | Dist. à Vert. ° ' " / Hor. supput. h ' " / Err. Horol. ' " | | | | |
| ♀ 17 | 20 25 48 | Limbi Solis inferioris | 72 42 10 / 20 06 18 / —19 30 | | | | |
| | 28 32 | | 72 20 10 / 08 57 / —19 35 | | | | |
| | 30 32 | | 72 01 10 / 10 57 / —19 35 | | | | |
| ☿ Oct. 13 | 7 33 12 | 7 27 22 | Lunæ limb. rem. à lucida in Sura Scorpii ——— | 40 58 15 | 980 96 | 40 57 48 | |
| | 35 47 | 29 57 | ——— rep. | 40 57 15 | 980 53 | 40 56 44 | |
| | | | Dist. à Vert. ° ' " / Hora supput. h ' " / Err. Horol. ' " | | | | |
| | 59 36 | Lucidæ Arietis | 54 30 20 / 7 53 46 / — 5 50 | | | | |
| | 8 01 35 | | 54 12 10 / 55 46 / — 5 49 | | | | |
| | 03 32 | | 53 54 00 / 57 44 / — 5 48 | | | | |

| Anno Christi 1686. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ ″ — Hora supp. h ′ ″ — Err. Horol. ′ ″ | | | |
| ♀ Oct. 29 | 8 44 32 | | 63 21 50 — 8 52 13 — + 7 41 | | | |
| | 46 42 | Palilicii | 63 02 20 — 54 20 — + 7 38 | | | |
| | 49 06 | | 62 40 10 — 56 44 — + 7 38 | | | |
| | 18 01 43 | 18 09 43 | Lunæ limb. rem. à Calce Castoris | 57 44 45 | 1383 10 | 57 44 48 |
| | 04 30 | 12 30 | rep. | 57 45 45 | 1383 37 | 57 45 28 |
| | 10 32 | 18 32 | Lunæ limb. rem. à clara in Juba Leonis | 05 15 45 | 125 64 | 05 15 01 |
| | 12 23 | 20 23 | rep. | 05 16 00 | 125 79 | 05 15 24 |
| | 16 56 | 24 56 | Lunæ limb. rem. à Calce Castoris | 57 49 55 | 1385 16 | 57 49 57 |
| | 19 14 | 27 14 | rep. | 57 51 00 | 1385 40 | 57 50 33 |
| | 22 34 | 30 34 | Calx Castoris à clara in Juba Leonis | 54 55 30 | 1315 49 | 54 55 50 |
| | | | Dist. à Vert. ° ′ ″ — Hora supp. h ′ ″ — Err. Horol. ′ ″ | | | |
| ♂ Nov. 2 | 8 43 57 | | 60 30 40 — 8 54 35 — +10 38 | | | |
| | 46 00 | Palilicii | 60 12 10 — 56 39 — +10 39 | | | |
| | 48 08 | | 59 52 40 — 58 47 — +10 39 | Part. per. Mic. | ′ ″ | |
| ☿ 3 | 18 17 18 | | Lunæ Diameter *Tubo Breviore* | 3855 | = 31 42 | |
| | | | ——— *Longiore* | 6375 | = 31 48 | |
| | | | ♀ à limb. Lunæ prox. *T. L.* | 4521 | = 22 33 | |
| | 28 28 | | Diff. Asc. lim. luc. & ♀ *L. T.* | 1323 | = 10 53 | |
| | | | ♀ à limb. lucido, *T. L.* | 4367 | = 21 47 | |
| | 34 18 | | ♀ à linea per Cuspide *T. B.* | 2070 | = 17 01 | |
| | 41 00 | | ♀ à limb. prox. *T. L.* | 3938 | = 19 39 | |
| | 52 45 | | rep. | 3417 | = 17 03 | |
| | 55 48 | | ♀ à limb. remot. *T. B.* | 6285 | = 51 40 | |
| ♀ 19 | | | *Eclipsin Lunæ Grenovici observare non potui, propter nubes densas, Cælos undiquaque subtegentes.* | | | |

☽ in ♌ 28°¾ Lat. Bor. 4⅓

| Anno Christi MDCLXXXVII. | | | | | | |
|---|---|---|---|---|---|---|
| | | | Dist. à Vert. ° ′ ″ — Hora suppút. h ′ ″ — Err. Horol. ′ ″ | | | |
| ☉ Jan. 16 | 9 39 14 | | 56 02 10 — 9 21 26 — −17 48 | | | |
| | 41 56 | Lucidæ Arietis | 56 27 30 — 24 08 — −17 48 | | | |
| | 43 39 | | 56 43 10 — 25 53 — −17 46 | | | |
| ♂ 18 | 10 06 43 | 9 48 03 | Lunæ limb. prox. à Regulo | 11 59 00 | 286 80 | 11 58 38 |
| | 12 37 | 53 57 | Lunæ limb. rem. à Procyone | 30 27 20 | 729 15 | 30 27 30 |
| | 15 30 | 56 50 | rep. | 30 28 10 | 729 49 | 30 28 22 |
| | 17 32 | 58 52 | Lunæ limb. prox. à Regulo | 11 55 00 | 285 30 | 11 54 52 |
| | | | Dist. à Vert. ° ′ ″ — Hora suppút. h ′ ″ — Err. Horol. ′ ″ | | | |
| | 40 50 | | 66 46 20 — 10 22 07 — −18 43 | | | |
| | 42 40 | Lucidæ Arietis | 67 04 00 — 24 01 — −18 39 | | | |
| | 44 31 | | 67 21 10 — 25 52 — −18 39 | | | |
| | | | *Reductis Indicibus, & demissa sunt perpendicula.* | | | |

☽ in ♌ 14° Lat. Bor. 4½

| Anno Christi 1687. Styl. Vet. | Tempora per Horologium Oscillatorium. h ' " | Tempora ex Altitudinibus Correcta. h ' " | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|
| | | | *Dist. à Vert.* ° ' " · *Hora supput.* h ' " · *Err. Horol.* ' " | | | | |
| ♃ Feb. 10 | 9 13 20 | Lucidæ Arietis | 67 31 20 · 8 56 08 · —17 12 | | | | |
| | 15 18 | | 67 49 30 · 58 00 · —17 18 | | | | |
| | 17 50 | | 68 13 10 · 9 00 28 · —17 22 | | | | |
| ♄ 12 | 8 51 02 | 8 33 22 | Lunæ limb. prox. à Cornu Boreo Tauri —— | 27 39 45 | 662 37 | 27 40 10 | |
| | 53 23 | 35 43 | —— rep. | 27 40 30 | 662 70 | 27 41 02 | |
| | 9 00 07 | 42 27 | Lunæ limb. rem. à Procyone | 20 22 45 | 488 02 | 20 22 45 | ☽ in ♋ 16° Lat. Bor. 3½ |
| | 02 04 | 44 25 | —— rep. | 20 22 55 | 488 07 | 20 22 53 | |
| | 06 21 | 48 41 | Lunæ limb. prox. à Cornu Tauri Boreo —— | 27 45 00 | 664 52 | 27 45 35 | |
| | 08 37 | 50 57 | —— rep. | 27 45 50 | 664 79 | 27 46 15 | |
| | 12 14 | 54 34 | Cornu Tauri Bor. à Procyone | 39 13 35 | 939 20 | 39 13 05 | |
| | | | *Transitus Lunæ supra Saturnum.* | | | | |
| | | | *Dist. à Vert.* ° ' " · *Hora supp.* h ' " · *Err. Horol.* ' " | | | | |
| ♄ 19 | 9 20 02 | | 55 19 10 · 9 00 57 · —19 05 | | | | |
| | 21 42 | Palilicii | 55 34 00 · 02 42 · —19 00 | | | | |
| | 23 31 | | 55 49 40 · 04 26 · —19 05 | *Part. per Mic.* | ' " | | |
| | 28 18 | 9 09 18 | ♄ à limb. Lunæ prox. *T. B.* | 2146 | = 17 38 | | |
| | 31 38 | 12 38 | —— rep. | 2010 | = 16 31 | | |
| | 38 26 | 19 26 | Diff. Dec. lim. ☽ Aust. & ♄ | 1519 | = 12 28 | | |
| | | | Lunæ Diameter *T. L.* —— | 6100 | = 30 26 | | |
| | 46 00 | 27 00 | ♄ à limb. Lunæ prox. *T. L.* | 2242 | = 11 11 | | |
| | | | Diff. Decl. ☽ lim. Aust. ♄ | 1306 | = 10 45 | | |
| | 49 08 | 30 08 | Lunæ Diameter *T. L.* —— | 6145 | = 30 39 | | |
| | | | Lunæ Diameter *T. B.* —— | 3628 | = 29 50 | | |
| | 54 18 | 35 18 | ♄ à limb. prox. —— | 1701 | = 08 29 | | |
| | | | —— Mihi | 1043 | = 08 34 | | |
| | 59 08 | 40 08 | ♄ à limbo —— | 1400 | = 06 59 | | |
| | | | Differentia Decl. —— Mihi | 925 | = 07 36 | | |
| | 10 03 17 | 44 17 | ♄ à limb. dist. —— | 1300 | = 06 29 | | |
| | | | Differentia Decl. —— | 801 | = 06 35 | | |
| | 07 30 | 48 30 | ♄ à limbo —— | 1110 | = 05 32 | | |
| | | | Different. Decl. limb. Aust. | 0670 | = 05 31 | | |
| | 09 30 | 50 30 | ♄ à limb. dist. —— | 1022 | = 05 06 | | |
| | | | *Paulo postea præteriit per Sinam & Besbicum.* | | | | |
| | 12 04 | 53 04 | —— rep. | 940 | = 04 41 | | |
| | 14 02 | 55 02 | —— iter. | 881 | = 04 21 | | |
| | 16 18 | 57 18 | —— iter. | 839 | = 04 11 | | |
| | 18 12 | 59 12 | —— iter. | 792 | = 03 57 | | |
| | 20 00 | 10 01 00 | —— denuò. | 737 | = 03 41 | | |
| | | | *Protinus nubes per quas non licuit Lunæ aut Planetæ à Fixis rimari distantias, nec ejus à Limbo recessum observare.* | | | | |
| ☉ 27 | 20 31 48 | 20 11 08 | Lunæ limb. prox. à Solis proximo —— | 46 28 10 | 1112 63 | 46 27 45 | |
| | 35 03 | 14 23 | —— rep. | 46 27 15 | 1112 28 | 46 26 53 | |
| | 36 40 | 16 00 | Lunæ limb. prox. à Solis remoto —— | 46 58 50 | 1124 77 | 46 58 12 | |
| | 38 46 | 18 06 | —— rep. | 46 57 50 | 1124 43 | 46 57 21 | |

| ANNO CHRISTI 1687. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | | | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|---|
| | | | *Dist. à Vert.* ° ′ ″ | *Hora supput.* h ′ ″ | *Err. Horol.* ′ ″ | | | |
| ☽ Febr. 28 | 7 04 44 | Lucidæ Arietis | 57 22 40 | 6 43 58 | — 20 46 | | | |
| | 06 38 | | 57 40 20 | 45 52 | — 20 46 | | | |
| | 08 58 | | 58 02 00 | 48 11 | — 20 47 | | | |
| ♀ Mar. 11 | 4 47 56 | Limbi Solis inferioris | 75 24 30 | 4 25 48 | — 22 08 | | | |
| | 50 34 | | 75 46 40 | 28 18 | — 22 16 | | | |
| | 52 11 | | 76 02 10 | 30 03 | — 22 08 | | | |
| | 8 05 49 | 7 43 37 | Lunæ limb. remot. à Polluce | | | 07 46 20 | 185 85 | 07 45 55 |
| | 08 25 | 46 13 | ——— rep. | | | 07 45 20 | 185 57 | 07 45 14 |
| ☽ in ♋ 12° Lat. Bor. 3½ | 14 42 | 52 30 | Lunæ limb. remot. à Procyone | | | 21 45 45 | 521 01 | 21 45 38 |
| | 16 10 | 53 58 | ——— rep. | | | 21 45 35 | 520 97 | 21 45 32 |
| | 19 51 | 57 39 | Lunæ limb. remot. à Polluce | | | 07 41 40 | 184 04 | 07 41 34 |
| | 21 28 | 59 16 | ——— rep. | | | 07 41 10 | 183 83 | 07 40 52 |
| ♄ 12 | 8 21 41 | 7 59 26 | Lunæ limb. remot. à Regulo *Stetêre Horologia propter Ventum Vehementissimum.* | | | 31 38 45 | 757 53 | 31 38 39 |
| | | | *Dist. à Vert.* ° ′ ″ | *Hora supput.* h ′ ″ | *Err. Horol.* ′ ″ | | | |
| ♃ 17 | 20 06 50 | | 68 40 40 | 20 06 06 | — 0 44 | | | |
| | 09 20 | Limbi Solis inferioris | 68 18 50 | 08 40 | — 0 40 | | | |
| | 11 33 | | 68 00 30 | 10 48 | — 0 45 | | | |
| | 13 47 | | 67 41 40 | 13 02 | — 0 45 | | | |
| | 16 14 | | 67 21 10 | 15 28 | — 0 46 | *Part. per Micr.* | ′ ″ | |
| ♀ 18 vel ♄ 19 *mané* | 12 56 46 | 12 56 00 | Lunæ Diameter *(Tubo Lon.)* | | | 6140 | = 30 37 | |
| | 58 36 | 57 50 | Repet. per. *J. S.* *(Tub. Brev.)* | | | 3768 | = 30 58 | |
| | 59 34 | 58 48 | ——— iter. | | | 6139 | = 30 37 | |
| | 13 01 54 | 13 01 08 | Saturnus à limbo Lunæ prox. | | | 2000 | = 09 58 | |
| | 08 44 | 07 55 | ——— rep. | | | 1417 | = 07 04 | |
| | 17 24 | 16 38 | ——— iter. | | | 672 | = 03 32 | |
| | 22 40 | 21 54 | Bor. pars Sinæ oculus Draconis & Bor. limbus Saturni in eodem Declinationis parallelo. | | | | | |
| | 25 02 | 24 18 | Dicta puncta in eodem parallelo cum limbo Saturni Austrino. | | | | | |
| | 26 30 | 25 44 | Saturni limbus tangit limbum Lunæ. | | | | | |
| | 26 50 | 26 04 | Centrum Saturni subit limbum Lunæ. | | | | | |
| | 27 08 | 26 22 | Occultatio tota Saturni sed anceps, Ansulam enim videre non potui quippe lumine Lunæ involutam. | | | | | |
| | | | Differentia Declinationum Saturni & limbi Lunæ verè Borei interea à Ministro capta *(Tub. Brev.)* | | | 2978 | = 24 29 | |
| | | | Immersio Saturni erat semilongitudinem Mareotidis à termino ejus Boreo. | | | | | |

| Anno Christi 1687. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♀ Mar. 18 vel | 13 45 00 | 13 44 14 | Lunæ limbus proximus à Spica Virginis ——— | 10 57 35 | 262 22 | 10 57 06 |
| ♄ 19 mane | 48 23 | 47 37 | Lunæ limbus proximus à Spica——— rep. | 10 56 25 | 261 73 | 10 55 58 |
| | 54 19 | 53 33 | Lunæ limb. prox. ab Arcturo | 29 31 25 | 706 82 | 29 31 30 |
| | 56 22 | 56 36 | ——— rep. | 29 31 45 | 706 94 | 29 31 48 |
| | 58 08 | 57 22 | Limbus Lunæ remotus ab Arcturo ——— | 30 01 55 | 719 15 | 30 02 22 |
| | 14 00 16 | 59 30 | ——— rep. | 30 02 15 | 719 23 | 30 02 34 |
| | | | *Tunc densa Nubes usque.* | | | |
| | 46 10 | 14 45 24 | Quando Saturnum per Hiatum emersum ægre vidi, ad terminum Austrinum Mæodis latitudinem ejus à limbo Lunæ proximo distantem. | | | |

| Anno Christi | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. | Dist. à Vert. ° ′ ″ | Hora supput. h ′ ″ | Err. Horol. ′ ″ |
|---|---|---|---|---|---|
| ♀ Apr. 15 | 19 48 44 | Limbi Solis inferioris. | 63 30 50 | 19 44 14 | |
| | 51 06 | | 63 10 20 | 46 28 | — 4 38 |
| | 53 07 | | 62 52 10 | 48 28 | — 4 39 |
| | 55 34 | | 62 30 30 | 50 51 | — 4 43 |
| | 58 21 | | 62 04 30 | 53 43 | — 4 38 |

| Anno Christi | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ 16 | 9 26 21 | 9 21 31 | Lunæ limbus proximus à γ Virginis ——— | 22 43 20 | 543 77 | 22 42 48 |
| | 29 18 | 24 28 | ——— rep. | 22 44 40 | 544 32 | 22 44 10 |
| | 35 06 | 30 16 | Lunæ limbus proximus à Lucida Coronæ ——— | 43 24 05 | 1039 11 | 43 23 30 |
| | 37 11 | 32 21 | ——— rep. | 43 24 00 | 1039 08 | 43 23 25 |
| | 39 02 | 34 12 | Lunæ limb. remot. ab eâdem | 43 54 50 | 1051 60 | 43 54 48 |
| | 40 42 | 35 52 | Limb. prox. ——— iter. | 43 24 15 | 1039 20 | 43 23 42 |
| | 45 43 | 40 53 | Lunæ limbus proximus à γ Virginis ——— | 22 51 35 | 547 08 | 22 51 08 |
| | 48 02 | 43 12 | ——— rep. | 22 52 30 | 547 45 | 22 52 00 |
| | 52 38 | 47 48 | Inter Fixas ——— | 50 14 55 | 1203 13 | 50 14 32 |

☽ in ♎ 28½ Lat. Bor. 1½

| Anno Christi | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. | Dist. à Vert. ° ′ ″ | Hora supput. h ′ ″ | Err. Horol. ′ ″ |
|---|---|---|---|---|---|
| ♂ 26 | 19 56 49 | Limbi Solis inferioris. | 60 20 50 | 19 48 18 | — 8 31 |
| | 59 01 | | 60 01 10 | 50 27 | — 8 34 |
| | 20 01 03 | | 59 42 20 | 52 30 | — 8 33 |

| Anno Christi 1687. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | Solaris Eclipsis. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☉ Maii 1 | 1 22 10 | 1 11 44 | Sol Clarus. | | | |
| | 27 30 | 17 04 | Cœpta est Eclipsis ut in Figurâ annexâ apparenter sesquiminuto citius cœpisse constabit è proximâ Observatione. | Part. per Mic. | ′ ″ | |
| | 30 08 | 19 42 | Chorda defectûs ———— | 1100 | = 05 29 | |
| | 31 36 | 21 08 | ———— rep. | 1300 | = 06 29 | |
| | 36 32 | 26 06 | ———— iter. | 1650 | = 08 15 | |
| | 42 58 | 32 32 | ———— | 1854 | = 09 15 | |
| | 46 20 | 35 54 | ———— | 1922 | = 09 35 | |
| | 49 54 | 39 28 | ———— | 1978 | = 09 52 | |
| | 52 30 | 42 04 | Partes lucidæ (*Tubo Brev.*) —— | 3732 | = 30 41 | |
| | 53 10 | 42 44 | Chorda Eclip. ———— | 1978 | = 09 52 | |
| | 55 16 | 44 50 | ———— | 1952 | = 09 44 | |
| | 59 14 | 48 48 | ———— | 1856 | = 09 14 | |
| | 2 00 54 | 50 28 | Partes lucidæ (*Tubo Brev.*) —— | 3751 | = 30 50 | |
| | 02 30 | 52 04 | Chorda ———— | 1676 | = 08 21 | |
| | 08 28 | 58 02 | ———— | 1300 | = 06 29 | |
| | 10 10 | 59 44 | ———— | 1100 | = 05 29 | |
| | 14 40 | 2 04 14 | Desiit certè (per *Tubo Brev.*) dubitavi annon 10″ citius. | | | |
| | 14 44 | 04 18 | Desiit Ministro supra Scenam. | | | |
| | 4 10 00 | 3 59 34 | Solis Diameter (*Tubo Long.*) | 6372 | = 31 47 | |
| | 16 08 | 4 05 42 | (*Tubo Brev.*) *J. F.* ———— | 3951 | = 31 40 | |
| | | | *Partes Lucidæ media Eclipsi à Ministro minus exercitato Tubo Breviore captæ fuere Justo (vereor) paululum majores, quibus propterea vix fidendum habeo, Optime ab Obscuratâ Chorda deduci possint.* *Interat hisce Observationibus D.* Edwards *Presbyter* Dorcestriensis Sopeleiæ *Vicarius.* | | | |
| | | | *Dist. à Vert.* ° ′ ″ / *Hora supput.* h ′ ″ / *Err. Horol.* ′ ″ | | | |
| | 4 24 52 | | 59 53 10 / 4 14 27 / — 10 25 | | | |
| | 26 48 | Sol. limbi inferioris } | 60 10 50 / 16 21 / — 10 27 | | | |
| | 28 52 | | 60 30 10 / 18 27 / — 10 25 | | | |
| | 31 02 | | 60 50 10 / 20 37 / — 10 25 | | | |
| | 33 20 | | 61 10 50 / 22 51 / — 10 29 | | | |
| ♂ 10 | 8 59 25 | 9 04 30 | Lunæ limbus remotus à γ Virginis ———— } | 19 37 10 | 469 80 | 19 36 55 |
| | 9 01 40 | 06 45 | ———— rep. | 19 36 00 | 469 43 | 19 36 00 |
| | 08 18 | 13 23 | Lunæ limbus remot. à Cauda Leonis ———— } | 08 27 55 | 202 60 | 08 27 52 |
| | 10 35 | 15 40 | ———— rep. | 08 28 05 | 202 65 | 08 28 00 |
| | 15 32 | 20 37 | Lunæ limbus remotus à γ Virginis ———— } | 19 30 30 | 467 18 | 19 30 21 |
| | 17 42 | 22 47 | ———— rep. | 19 29 30 | 466 85 | 19 29 30 |
| | 20 19 | 25 24 | Cauda Leonis à γ Virginis —— | 20 39 25 | 494 62 | 20 39 22 |

☽ in ♍ 16°½
*Lat. Bor.* 4.

| Anno Christi 1687. Styl. Vet. | Tempora per Horologium Oscillatorium. h ' " | Tempora ex Altitudinibus Correcta. h ' " | LUNÆ DISTANTIÆ à FIXIS. | | | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Dist. à Vert. h ' " | Hora supput. h ' " | Err. Horol. ' " | | | | |
| ☿ Maii 11 | 6 46 42 | Limbi Solis inferioris | 81 57 10 | 6 50 58 | + 4 16 | | | | |
| | 49 24 | | 82 21 20 | 53 49 | + 4 25 | | | | |
| | | | ° ' " | h ' " | ' " | | | | |
| ☿ Junii 8 | 19 57 23 | Limbi Solis inferioris | 56 18 10 | 19 42 22 | — 15 01 | | | | |
| | 19 59 04 | | 56 02 00 | 44 06 | — 14 58 | | | | |
| | 20 01 07 | | 55 43 10 | 46 08 | — 14 59 | | | | |
| ♃ 9 | 10 15 54 | 9 59 54 | Lunæ limbus proximus à γ Virginis ——— | | | 13 11 30 | 315 80 | 13 11 13 | |
| | 17 53 | 10 01 53 | ——— rep. | | | 13 12 20 | 316 14 | 13 12 05 | |
| | 24 41 | 08 41 | Lunæ limbus remotus ab Arcturo ——— | | | 29 18 50 | 702 09 | 29 19 39 | ☽ in ♎ 15⅜ Lat. Bor. 2 |
| | 26 51 | 10 51 | ——— rep. | | | 29 19 00 | 702 06 | 29 19 55 | |
| | 32 21 | 16 21 | Lunæ limbus proximus à γ Virginis ——— iter. | | | 13 18 00 | 318 44 | 13 17 50 | |
| | 34 41 | 18 41 | ——— rep. | | | 13 19 00 | 318 69 | 13 18 27 | |
| | | | Dist. à Vert. ° ' " | Hora supput. h ' " | Err. Horol. ' " | | | | |
| ♂ 13 | 20 06 57 | Limbi Solis inferioris | 56 11 50 | 19 43 14 | — 23 43 | | | | |
| | 09 16 | | 55 50 00 | 45 27 | — 23 49 | | | | |
| | 11 26 | | 55 30 10 | 47 35 | — 23 51 | | | | |
| | | | ° ' " | h ' " | ' " | | | | |
| ☽ Sept. 5 | 19 38 25 | Sol. limbi inferioris | 71 42 40 | 19 47 50 | + 9 25 | | | | |
| | 41 00 | | 71 20 20 | 50 23 | + 9 23 | | | | |
| | 43 11 | | 71 01 20 | 52 34 | + 9 23 | | | | |
| ♀ 9 | 9 17 25 | 9 28 10 | Lunæ limb. remot. à Piscium η | | | 48 14 00 | 1155 10 | 48 14 02 | |
| | 21 16 | 32 01 | ——— rep. | | | 48 12 10 | 1154 37 | 48 12 21 | |
| | 28 36 | 39 21 | Lunæ limbus remotus ab Oculo Pegasi θ ——— | | | 22 32 50 | 539 67 | 22 32 30 | ☽ in ♓ 5¾ Lat. Aust. 5⅞ |
| | 31 26 | 42 11 | ——— rep. | | | 22 33 00 | 539 74 | 22 32 40 | |
| | 36 31 | 47 16 | Lunæ limbus remot. à Piscium η ——— iter. | | | 48 04 50 | 1151 35 | 48 04 46 | |
| | 38 30 | 49 15 | ——— rep. | | | 48 03 55 | 1151 06 | 48 04 03 | |
| | 42 56 | 53 41 | Piscium η à Pegasi θ ——— | | | 50 10 45 | 1201 48 | 50 10 24 | |
| | | | Dist. à Vert. ° ' " | Hora supp. h ' " | Err. Horol. ' " | | | | |
| | 19 57 58 | Limbi Solis inferioris | 69 56 50 | 20 09 04 | + 11 06 | | | | |
| | 59 58 | | 69 40 40 | 10 56 | + 10 58 | | | | |
| | 20 02 08 | | 69 22 00 | 13 13 | + 11 05 | | | | |
| ANNO CHRISTI MDCLXXXVIII. | | | | | | | | | |
| ♄ Jan. 7 | 7 Vesp. | 7 Vesp. | Error Horologij ——— | | + 6 48 | | | | |
| | | | ——— | | + 6 59 | | | | |
| | | | ——— | | + 6 54 | | | | |
| ♀ 27 | 6 24 36 | 6 32 16 | Lunæ limb. rem. à Palilicio | | | 41 18 55 | 989 37 | 41 18 54 | |
| | 26 42 | 34 22 | ——— rep. | | | 41 18 10 | 989 08 | 41 18 10 | |
| | 34 29 | 42 09 | Lunæ limbus proximus à Mirach Andromedæ ——— | | | 27 13 25 | 651 61 | 27 13 13 | ☽ in ♈ 24½ Lat. Aust. 1½ |
| | 38 42 | 46 22 | ——— rep. | | | 27 12 55 | 651 42 | 27 12 45 | |
| | 44 54 | 52 34 | Lunæ limb. rem. à Palilicio | | | 41 09 25 | 985 83 | 41 10 02 | |
| | 47 08 | 54 48 | ——— rep. | | | 41 08 35 | 985 42 | 41 09 00 | |

| | Anno Christi 1688. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ♀ Jan. 27 | 6 50 32 | 6 58 12 | Lunæ limb. rem. à Palilicio per D. *Adir Scotum*. iter. | 41 06 30 | | |
| | | 56 10 | 7 03 50 | Palilicium à Mirach | 49 27 15 | 1184 17 | 49 27 03 |
| | | 7 01 29 | 09 09 | rep. | 49 27 15 | 1184 11 | 49 26 54 |
| ☽ in ♊ 5°½ Lat. Bor. 2 | ☽ 30 | 5 43 34 | 5 52 28 | Lunæ limb. rem. à Cornu Tauri Boreo | 13 07 55 | 314 43 | 13 07 48 |
| | | 47 06 | 56 00 | rep. | 13 06 35 | 313 87 | 13 08 54 |
| | | 53 02 | 6 01 56 | Lunæ limb. rem. ab humero Orionis præcedente | 21 53 55 | 524 20 | 21 53 37 |
| | | 55 40 | 04 34 | rep. | 21 53 30 | 524 03 | 21 53 12 |
| | | 6 00 23 | 09 17 | Lunæ limb. rem. à Cornu Tauri Boreo | 13 00 55 | 311 60 | 13 00 43 |
| | | 03 03 | 11 57 | rep. | 13 00 05 | 311 26 | 12 59 53 |
| | | | | Dist. à Vert. ° ′ ″ — Hora supp. h ′ ″ — Err. Horol. ′ ″ | | | |
| | ♂ 31 | 5 35 50 | Pollucis | 50 01 10 — 5 45 03 — + 9 13 | | | |
| | | 38 01 | | 49 40 40 — 47 19 — + 9 18 | | | |
| | | 40 03 | | 49 21 00 — 49 25 — + 9 22 | | | |
| | | 42 06 | | 49 02 10 — 51 26 — + 9 20 | | | |
| | | 6 08 31 | 6 17 51 | Lunæ limb. prox. à lucida Plejadum | 23 18 05 | 557 79 | 23 18 00 |
| | | 11 12 | 20 32 | rep. | 23 19 00 | 558 20 | 23 19 00 |
| ☽ in ♊ 19°½ Lat. Bor. 3 | | 17 32 | 26 52 | Lunæ limb. rem. ab humero sequente Orionis | 19 59 00 | 478 41 | 19 58 33 |
| | | 20 25 | 29 45 | rep. | 19 59 00 | 478 39 | 19 58 30 |
| | | 29 04 | 38 24 | Lunæ limb. prox. à lucida Plejadum | 23 26 10 | 561 15 | 23 26 24 |
| | | 31 28 | 40 40 | rep. | 23 27 00 | 561 48 | 23 27 13 |
| | | 37 02 | 46 22 | Lucida Plejadum ab humero sequente Orionis | 34 49 35 | 833 72 | 34 49 12 |
| | | 39 01 | 48 21 | rep. | 34 49 40 | 833 73 | 34 49 13 |
| | ♂ Feb. 13 | 16 46 01 | 17 01 46 | Lunæ limb. rem. à Spica Virginis | 43 29 30 | 1041 19 | 43 28 43 |
| | | 48 58 | 04 43 | rep. | 43 30 30 | 1041 58 | 43 29 42 |
| ☽ in ♐ 2°½ Lat. Aust. 3½. | | 55 33 | 11 18 | Lunæ limb. prox. à Capite Ophiuchi | 41 22 00 | 990 84 | 41 22 35 |
| | | 57 24 | 13 09 | rep. | 41 21 55 | 990 72 | 41 22 16 |
| | | 17 02 21 | 18 06 | Lunæ limb. rem. à Spica Virginis | 43 35 20 | 1043 65 | 43 34 52 |
| | | 04 12 | 19 57 | rep. | 43 36 10 | 1043 94 | 43 35 36 |
| | | | | Dist. à Vert. ° ′ ″ — Err. Horol. h ′ ″ — Hora supp. ′ ″ | | | |
| | | 21 01 | Aquilæ Lucidæ | 60 49 10 — 17 36 42 — +15 41 | | | |
| | | 23 10 | | 60 30 20 — 38 57 — +15 47 | | | |
| | | 25 26 | | 60 11 11 — 41 15 — +15 49 | | | |
| | ☽ 27 | 6 35 49 | 7 02 49 | Lunæ limb. rem. à Polluce | 33 23 55 | 799 50 | 33 23 37 |
| | | 37 34 | 04 34 | rep. | 33 23 05 | 799 20 | 33 22 52 |
| | | 43 09 | 10 09 | Lunæ limb. rem. à sequente humero Orionis | 21 08 45 | 506 25 | 21 08 33 |
| ☽ in ♊ 15°½ Lat. Bor. 3 | | 44 57 | 11 57 | rep. | 21 08 35 | 506 20 | 21 08 25 |
| | | 48 46 | 15 46 | Lunæ lim. rem. à Polluce iter. | 33 18 15 | 797 29 | 33 18 06 |
| | | 51 02 | 18 02 | denuò | 33 17 15 | 796 91 | 33 17 06 |
| | | 54 13 | 21 13 | Pollux à sequente humero Orionis | 33 15 25 | 796 21 | 33 15 24 |

| Anno Christi 1688. *Styl. Vet.* | *Tempora per Horologium Oscillatorium* h ' '' | *Tempora ex Altitudinibus Correcta.* h ' '' | LUNÆ DISTANTIÆ à FIXIS. | *Dist. a Vert.* ° ' '' | *Hora supp.* h ' '' | *Err. Horol.* ' '' | *Distantiæ per lineas diagonales.* ° ' '' | *Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* *Revol. Cent.* | ° ' '' |
|---|---|---|---|---|---|---|---|---|---|
| ☽ Feb. 27 | 7 12 46 | Caudæ Leonis | | 63 48 20 | 7 39 45 | +26 59 | | | |
| | 15 34 | | | 63 22 10 | 42 34 | +27 00 | | | |
| | 17 46 | | | 63 01 20 | 44 48 | +27 02 | | | |
| ♀ Mar. 30 | 10 24 26 | Arcturi | | 41 40 40 | 10 18 40 | — 5 46 | | | |
| | 27 07 | | | 41 20 20 | 21 17 | — 5 50 | | | |
| | 29 38 | | | 41 00 10 | 23 54 | — 5 44 | | | |
| | 32 09 | | | 40 41 10 | 26 24 | — 5 45 | | | |
| | 35 18 | | | 40 18 30 | 29 24 | — 5 54 | | | |
| ☿ Apr. 5 | | | Derbiæ *ubi tunc occasione mortis Patris mei* Stephani Flamstedii *commorabar, Eclipsin Lunarem observavi, Tubo Pedum 7, olim meo, sed quem nunc Amicus subministrabat. Horologio usus sum Oscillatorio, cujus ope notata tempora, deinde ab altitudinibus Arcturi, Triangulo Ligneo æquilatero 22 pollicum Radio, captis correxi. Nubes insidebant Horizonte sub quo medium Eclipsis peractum est.* | | | | | | |
| | 7 32 | 7 35 30 | Umbra infra Oram inferiorem Maris Caspii. | | | | | | |
| | 54 | 57 | Desiit Eclipsis. | | | | | | |
| | 55 | 58 | Certe Desierat. | | | | | | |
| | 56 | 59 | Penumbra. | | | | | | |
| | | | *Interea* Tho. Faber *minister olim meus cum amico* Reinholdo & Staffordio, Grenovici *in Observatorio Notarunt* | | | | | | |
| | 8 10 04 | 8 01 42 | Finis. | | | | | | |
| | | | Staffordius *serius accidisse putat tribus Minutis. Sed huic utpote minus exercitato vix Fidendum habeo. Deinde Observarunt.* | | | | | | |
| | 12 14 03 | 12 05 39 | Lunæ limb. rem. à Spica Virginis ——— | | | | 10 35 25 | 253 40 | 10 35 03 |
| | 19 50 | 11 26 | ——— rep. | | | | 10 37 40 | 254 34 | 10 37 24 |
| | 21 56 | 13 32 | ——— iter. | | | | 10 38 15 | 254 58 | 10 38 00 |
| | 27 07 | 18 43 | Lunæ limb. rem. à lucida in Collo Serpentis ——— | | | | 30 57 15 | 741 04 | 30 57 24 |
| | 30 10 | 21 44 | ——— rep. | | | | 30 56 50 | 740 92 | 30 57 06 |

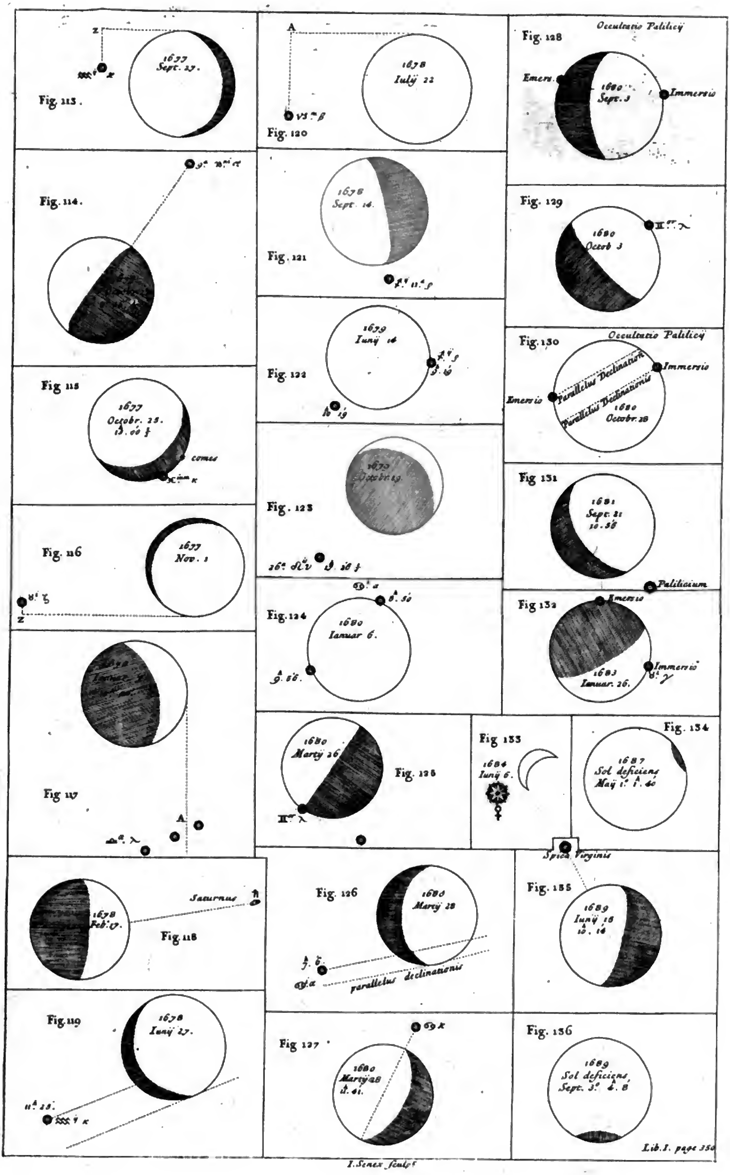
| Anno Christi 1688. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ☽ in ♎ 29°½ Lat. Bor. 0¾. ☿ Apr. 5 | 12 34 07 | 12 25 43 | Lunæ limb. rem. à Spica Virginis | 10 42 30 | 256 24 | 10 42 09 |
| | 36 01 | 27 37 | rep. | 10 43 00 | 256 48 | 10 42 45 |
| | 38 08 | 29 44 | iter. | 10 43 50 | 256 76 | 10 43 27 |
| | 48 39 | 40 35 | Spica Virginis à lucida in Collo Serpentis | 38 47 30 | 929 05 | 38 47 40 |
| | 51 48 | 43 24 | rep. | 38 47 30 | 929 06 | 38 47 42 |
| | | | Dist. à Vert. ° ′ ″ · Hor. supp. h ′ ″ · Err. Horol. ′ ″ | | | |
| ♄ 7 | 4 25 54 | Limbi Solis inferioris | 65 42 50 · 4 16 40 · − 9 14 | | | |
| | 28 38 | | 66 08 00 · 19 26 · − 9 12 | | | |
| | 31 00 | | 66 29 40 · 21 48 · − 9 12 | | | |
| ♂ Aug. 28 | 3 53 23 | Limbi Solis inferioris | 66 18 20 · 3 51 41 · − 1 42 | | | |
| | 55 05 | | 66 33 30 · 53 26 · − 1 39 | | | |
| | 56 34 | | 66 47 30 · 55 03 · − 1 31 | | | |
| | 58 14 | | 67 01 00 · 56 37 · − 1 37 | | | |
| | 59 41 | | 67 13 40 · 58 04 · − 1 37 | | | |
| | 8 37 29 | 8 35 49 | Lunæ limb. prox. à Jove | 28 03 55 | 671 89 | 28 04 03 |
| | 39 04 | 37 24 | rep. | 28 04 20 | 672 03 | 28 04 24 |
| | | | Dist. à Vert. ° ′ ″ · Hora supp. h ′ ″ · Err. Horol. ′ ″ | | | |
| ♀ Sept. 14 | 19 59 48 | Limbi Solis inferioris | 73 00 00 · 20 00 38 · + 0 50 | | | |
| | 20 02 11 | | 72 40 40 · 03 01 · + 0 50 | | | |
| | 04 47 | | 72 18 40 · 05 34 · + 0 47 | | | |
| | 07 00 | | 72 00 00 · 07 48 · + 0 48 | | | |
| | 09 22 | | 71 40 40 · 10 07 · + 0 45 | | | |
| ☽ 24 | 8 19 46 | 8 22 11 | Lunæ limb. rem. ab Aquarii λ | 28 58 50 | 693 84 | 28 58 58 |
| | 21 56 | 24 21 | rep. | 28 58 10 | 693 53 | 28 58 12 |
| | 27 37 | 30 02 | Lunæ limb. prox. à Capricorni β | 13 52 30 | 332 26 | 13 52 25 |
| ☽ in ♒ 9° Lat. Aust. 5½ | 29 47 | 32 12 | rep. | 13 53 20 | 332 52 | 13 53 05 |
| | 34 29 | 36 54 | Lunæ limb. rem. ab Aquarii λ rep. | 28 52 20 | 691 23 | 28 52 27 |
| | 36 30 | 38 55 | rep. | 28 51 30 | 690 89 | 28 51 36 |
| | 41 45 | 44 10 | Inter Fixas λ Aquarii & β Capricorni | 37 49 20 | 905 70 | 37 49 15 |
| | 44 34 | 46 59 | rep. | 37 49 35 | 905 80 | 37 49 30 |
| | | | Dist. à Vert. ° ′ ″ · Hora supp. h ′ ″ · Err. Horol. ′ ″ | | | |
| ♄ 29 | 7 35 31 | Lucidæ Arietis | 64 47 40 · 7 38 47 · + 3 16 | | | |
| | 37 30 | | 64 29 20 · 40 45 · + 3 15 | | | |
| | 39 38 | | 64 09 30 · 42 53 · + 3 15 | | | |
| | 41 14 | | 63 54 00 · 44 32 · + 3 18 | | | |
| | 43 00 | | 63 39 10 · 46 08 · + 3 08 | | | |

| Anno Christi 1689. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantia per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h ′ ″ \| *Err. Horol.* ′ ″ | | | | |
| ♀ Feb. 15 | 8 02 18 | | 56 17 50 \| 7 44 43 \| —17 35 | | | | |
| | 04 23 | | 56 00 00 \| 45 49 \| —17 34 | | | | |
| | 05 54 | Reguli | 55 46 50 \| 48 20 \| —17 34 | | | | |
| | 07 14 | | 55 35 40 \| 49 44 \| —17 30 | | | | |
| | 08 38 | | 55 23 30 \| 51 04 \| —17 34 | | | | |
| ☽ 18 | 7 08 10 | 6 50 10 | Lunæ limb. prox. à Palilicio | 33 45 20 | 808 14 | 33 45 13 | |
| | 10 15 | 52 15 | ——— rep. | 33 46 05 | 808 44 | 33 45 58 | ☽ in ♋ 8° Lat. Bor. 4½ |
| | 13 38 | 55 38 | Lunæ limb. rem. à Procyone | 24 56 55 | 597 14 | 24 56 33 | |
| | 15 16 | 57 16 | ——— rep. | 24 56 20 | 596 96 | 24 56 06 | |
| | 19 08 | 7 01 08 | Lunæ limb. prox. à Palilicio | 33 49 45 | 809 90 | 33 49 38 | |
| | 22 14 | 04 14 | ——— rep. | 33 50 50 | 810 34 | 33 50 43 | |
| | 25 38 | 07 38 | Procyon à Palilicio ——— | 46 20 00 | 1109 41 | 46 19 40 | |
| | 28 08 | 10 08 | ——— rep. | 46 20 10 | 1109 47 | 46 19 50 | |
| ♂ 19 | 6 35 30 | 6 17 28 | Lunæ limb. proximus à lucido Pede Gemini ——— | 19 53 00 | 476 05 | 19 53 22 | |
| | 37 37 | 19 35 | ——— rep. | 19 53 40 | 476 54 | 19 53 53 | |
| | 41 25 | 23 23 | Lunæ limb. prox. à Castore— | 7 17 10 | 174 19 | 7 16 44 | ☽ in ♋ 21½ Lat. Bor. 4½ |
| | 43 02 | 25 00 | ——— rep. | 7 17 30 | 174 29 | 7 16 59 | |
| | 46 31 | 28 29 | Lunæ limb. proximus à lucido Pede Gemini ——— | 19 57 30 | 477 87 | 19 57 14 | |
| | 48 56 | 30 54 | ——— rep. | 19 58 20 | 478 20 | 19 58 03 | |
| | 56 07 | 38 05 | Lucidus Pes Gemini à Castore | 20 10 55 | 483 34 | 20 10 59 | |
| | | | ——— rep. | 20 10 55 | 483 32 | 20 10 56 | |
| | | | *Dist. à Vert.* ° ′ ″ \| *Hora supp.* h ′ ″ \| *Err. Horol.* ′ ″ | | | | |
| | 8 11 40 | | 52 56 40 \| 7 53 35 \| —18 05 | | | | |
| | 13 38 | | 52 40 30 \| 55 34 \| —18 04 | | | | |
| | 15 00 | Reguli | 52 29 50 \| 56 55 \| —18 05 | | | | |
| | 16 27 | | 52 17 30 \| 58 23 \| —18 04 | | | | |
| | 17 47 | | 52 06 30 \| 59 45 \| —18 02 | | | | |
| | | | Martii *Die* 25, *accidit Eclipsis Lunæ, cujus Initium & Immersio sub Horizonte contigêre. Ascendit Luna Umbris mediis immersa. Cœlo valde tranquillo & sereno. Observavi deinde* | | | | |
| ☽ Mar. 25 | 7 30 00 | 7 27 20 | Initium Emersionis. | | | | |
| | 31 50 | 29 10 | Tota Mareotis retecta. | *Part. per Mic.* 48 10 | ′ ″ = 24 00 | | |
| | 37 40 | 35 00 | Chorda Peripheriæ lucidæ—— | | | | |
| | 41 10 | 38 30 | Umbra per medium Porphyritidis. | | | | |
| | 48 16 | 45 36 | Creta retecta. | | | | |
| | 49 00 | 46 20 | Sina incipit emergere. | | | | |
| | 49 32 | 47 02 | Per medium Sinæ. | | | | |
| | 50 36 | 47 56 | Sina tota retecta. | | | | |
| | 8 00 12 | 57 32 | Per medium Lacus Nigri Majoris. | | | | |
| | 00 50 | 58 10 | Totus Lacus emersit. | | | | |
| | 09 30 | 8 06 50 | Horminius. | | | | |
| | 10 48 | 08 08 | Incipit Byzantium. | | | | |

| | Anno Christi 1689. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ex Altitudinibus Correcta. h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|---|
| | ☽ Mar. 25 | 8 11 28 | 8 08 48 | Byzantium totum. | | | |
| | | 11 50 | 09 10 | Per Horminium. | | | |
| | | 16 13 | 13 38 | Per Apolloniam. | | | |
| | | 19 40 | 17 00 | Macra tota retecta. | Part. per Mis. | ′ ″ | |
| | | 20 24 | 17 44 | Partes Peripheriæ obscuratæ – | 4305 | = 21 28 | |
| | | 23 12 | 20 32 | Chorda eadem ———— | 4028 | = 20 06 | |
| | | 26 18 | 23 38 | Chorda Peripheriæ obscuratæ ———— iter. | 2521 | = 12 36 | |
| | | 27 34 | 24 54 | Mæotis incipit emergere. | | | |
| | | 28 40 | 26 00 | Insula major tota. | | | |
| | | 31 54 | 29 14 | Mæotis tota. | | | |
| | | 33 20 | 30 40 | Finis medio ferè inter Mæotida & Macram. | | | |
| | | 36 08 | 33 28 | Mareotidis limbus remotus à limbo Lunæ proximo – | 202 | = 01 01 | |
| | | 09 00 | Circiter | Lunæ Diameter ———— *Forte* 15″ *minor.* | 6148 | = 30 40 | |
| | | 10 03 45 | 10 01 45 | Lunæ limb. remot. à Regulo – | 52 38 50 | 1260 42 | 52 38 06 |
| | | 06 05 | 03 25 | ———— rep. | 52 39 30 | 1260 92 | 52 39 21 |
| ☽ in ♎ 18 Lat. Aust. 0 4/5 | | 11 30 | 08 50 | Lunæ limbus remotus ab Arcturo ———— | 32 04 40 | 767 92 | 32 04 40 |
| | | 13 16 | 10 36 | ———— rep. | 32 04 50 | 768 07 | 32 05 01 |
| | | 14 33 | 11 33 | Lunæ limbus proximus ab Arcturo ———— | 31 34 40 | 756 01 | 31 34 50 |
| | | 15 46 | 13 06 | Lunæ limbus remotus ab Arcturo ———— | 32 05 00 | 768 07 | 32 05 01 |
| | | 22 01 | 19 21 | Lunæ limb. remot. à Regulo | 52 45 30 | 1263 36 | 52 45 27 |
| | | 23 31 | 20 51 | ———— rep. | 52 46 20 | 1263 69 | 52 46 16 |
| | | | | *Dist. à Vert.* ° ′ ″ ; *Hora supput.* h ′ ″ ; *Err. Horol.* ′ ″ | | | |
| | | 20 07 24 | Limbi Solis inferioris | 66 13 20 ; 8 04 36 ; — 2 48 | | | |
| | | 08 55 | | 66 00 20 ; 06 06 ; — 2 49 | | | |
| | | 10 58 | | 65 42 40 ; 08 08 ; — 2 50 | | | |
| | | 12 39 | | 65 28 20 ; 09 48 ; — 2 51 | | | |
| | | 14 21 | | 65 13 40 ; 11 30 ; — 2 51 | | | |
| | ♃ Apr. 11 | 22 34 00 | 22 30 45 | Lunæ limbus proximus à Solis remoto ———— | 38 02 40 | 910 92 | 38 02 18 |
| ☽ in ♊ 11 Lat. Bor. 4 | | 35 40 | 32 25 | ———— rep. | 38 03 25 | 911 18 | 38 02 56 |
| | | 37 28 | 34 13 | Lunæ limbus proximus à Solis proximo ———— | 37 32 40 | 898 82 | 37 32 02 |
| | | 39 03 | 35 48 | ———— rep. | 37 33 25 | 899 17 | 37 32 54 |
| | | 44 01 | 40 46 | Lunæ limbus proximus à Solis remoto ———— | 38 07 25 | 912 82 | 38 07 03 |
| | | | | *Dist. à Vert.* ° ′ ″ ; *Hor. supput.* h ′ ″ ; *Err. Horol.* ′ ″ | | | |
| | ♀ 12 | 20 17 14 | | 59 41 30 ; 20 13 54 ; — 3 20 | | | |
| | | 18 36 | Sol. limbi inferioris | 59 29 30 ; 15 15 ; — 3 21 | | | |
| | | 19 55 | | 59 17 40 ; 16 36 ; — 3 19 | | | |
| | | 21 26 | | 59 04 20 ; 18 07 ; — 3 19 | | | |
| | | 23 11 | | 58 49 30 ; 19 48 ; — 3 23 | | | |
| | | 24 30 | | 58 37 30 ; 21 11 ; — 3 19 | | | |
| | ☽ 29 | 4 05 23 | Sol. limbi inferioris. | 57 44 40 ; 3 58 29 ; — 6 54 | | | |
| | | 06 47 | | 57 57 50 ; 59 51 ; — 6 56 | | | |

| Anno Christi 1689. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora ex Altitudinibus Correcta. h. ′ ″ | *LUNÆ* DISTANTIÆ à FIXIS. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| ☽ Apr. 29 | 15 00 56 | 14 53 56 | Lunæ limb. rem. ab Antare— | 47 20 40 | 1133 71 | 47 20 36 | ☽ in ♑ 23° Lat. Aust. 5. |
| | 03 25 | 56 25 | ———— rep. | 47 21 30 | 1134 04 | 47 21 25 | |
| ☿ Maii 15 | 9 44 29 | 9 33 09 | Lunæ limbus remot. à Cauda Leonis ———— | 16 29 35 | 394 98 | 16 29 22 | |
| | 46 35 | 35 15 | ———— rep. | 16 28 45 | 394 64 | 16 28 32 | |
| | 54 14 | 42 54 | Lunæ limbus prox. à Lucida in Cervice Leonis— | 10 45 20 | 257 36 | 10 44 57 | ☽ in ♍ 4½° Lat. Bor. 1½ |
| | 57 19 | 45 59 | ———— rep. | 10 46 40 | 257 90 | 10 46 18 | |
| | 59 10 | 47 40 | ———— iter. | 10 47 30 | 258 27 | 10 47 13 | |
| | 10 04 37 | 53 17 | Lunæ limbus remot. à Cauda Leonis ———— | 16 23 15 | 392 50 | 16 23 10 | |
| | 06 54 | 55 34 | ———— rep. | 16 22 35 | 392 22 | 16 22 28 | |
| | 12 57 | 10 01 37 | Inter Fixas ———— | 21 58 05 | 526 01 | 21 58 10 | |
| | | | *Dist. à Vert.* ° ′ ″; *Hora Supput.* h ′ ″; *Err. Horol.* ′ ″ | | | | |
| | 19 24 04 | Limbi Solis inferioris | 62 33 00; 19 12 40; —11 24 | | | | |
| | 25 50 | | 62 17 30; 14 20; —11 30 | | | | |
| | 27 42 | | 61 59 20; 16 17; —11 25 | | | | |
| | 29 08 | | 61 45 40; 17 44; —11 24 | | | | |
| | 30 55 | | 61 29 30; 19 28; —11 27 | | | | |
| | | | *Deinde reduxi Indices—15′* | | | | |
| | | | *Facto Errore—— + 3′ 30″* | | | | |
| ☽ Jun. 10 | 3 18 52 | 3 12 57 | Lunæ limbus proximus à Solis proximo ———— | 43 05 45 | 1032 08 | 43 05 54 | |
| | 21 41 | 15 46 | ———— rep. | 43 06 55 | 1032 42 | 43 06 45 | ☽ in ♌ 12° Lat. Aust. 4. |
| | 22 43 | 16 48 | Lunæ limbus proximus à Solis remoto ———— | 43 38 35 | 1045 07 | 43 38 27 | |
| | 24 17 | 18 22 | ———— rep. | 43 39 15 | 1045 31 | 43 39 03 | |
| | | | *Dist. à Vert.* ° ′ ″; *Hora supput.* h. ′ ″; *Err. Horol.* ′ ″ | | | | |
| | 4 38 34 | Sol. limbi inferioris | 58 37 40; 4 32 40; — 5 54 | | | | |
| | 40 32 | | 58 55 40; 34 36; — 5 56 | | | | |
| | 42 12 | | 59 11 20; 36 17; — 5 55 | | | | |
| | 43 34 | | 59 24 00; 37 38; — 5 56 | | | | |
| | 44 52 | | 59 35 40; 38 53; — 5 59 | | | | |
| | 19 27 00 | Limbi Solis inferioris | 59 37 20; 19 20 56; — 6 04 | | | | |
| | 28 30 | | 59 22 40; 22 32; — 5 58 | | | | |
| | 29 48 | | 59 11 00; 23 45; — 6 03 | | | | |
| | 31 32 | | 58 54 40; 25 30; — 6 02 | | | | |
| | 33 21 | | 58 38 20; 27 15; — 6 06 | *Part. per Div.* | ′ ″ | | |
| ♄ 15 | 9 48 14 | 9 40 28 | Spica Virginis à limbo Lunæ proximo & Austrino | 1424 | = 11 42 | | *Vide Fig.* 135 |
| | 51 20 | 43 34 | Spica à lineâ per Cuspides obtusas ———— | 807 | = 06 39 | | |
| | 54 30 | 46 44 | Spica à Limbo ———— iter. | 1444 | - .1 53 | | |
| | 57 00 | 49 14 | Lunæ Diameter ———— | 3672 | = 30 11 | | |
| | 10 00 00 | 52 14 | ———— rep. | 3680 | = 30 15 | | |
| | 03 12 | 55 26 | Spica à Limbo———— iter. | 1515 | = 12 27 | | |
| | 11 52 | 10 04 06 | ———— rep. | 1681 | = 13 49 | | |
| | 21 22 | 13 36 | Dubitavi annon in eodem Verticali Circulo cum Limbo Lunæ antecedente. | | | | |

| ANNO CHRISTI 1689. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h ′ ″ | *Tempora ex Altitudinibus Correcta.* h ′ ″ | LUNÆ DISTANTIÆ à FIXIS. | *Distantiæ per lineas diagonales.* ° ′ ″ | *Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus.* Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♄ Jun. 15 | 10 22 02 | 10 14 16 | Spica in eodem Verticali certè | *Part. per Mic.* | ′ ″ | |
| | 24 26 | 16 40 | Spica à Limbo Lunæ proximo | 1951 | = 16 02 | |
| | | | *Dist. à Vert.* ° ′ ″ · *Hora supput.* h ′ ″ · *Err. Horol.* ′ ″ | | | |
| ☽ Sept. 2 | 3 50 11 | | 68 26 10 · 3 56 14 · + 6 03 | | | |
| | 51 48 | Limbi Solis inferioris | 68 40 10 · 57 51 · + 6 03 | | | |
| | 53 33 | | 68 55 20 · 59 56 · + 6 03 | | | |
| | 55 25 | | 69 10 40 · 4 01 23 · + 5 58 | | | |
| | 56 52 | | 69 24 10 · 02 57 · + 6 05 | | | |
| | 19 58 45 | | 68 25 00 · 20 05 22 · + 6 37 | | | |
| | 20 00 28 | Limbi Solis inferioris | 68 09 30 · 07 10 · + 6 42 | | | |
| | 02 30 | | 67 52 30 · 09 10 · + 6 40 | | | |
| | 04 24 | | 67 36 40 · 11 02 · + 6 38 | | | |
| | 05 57 | | 67 23 30 · 12 35 · + 6 38 | | | |
| | | | Die 27 *Augusti* mane Horologii error erat + 3′ 35″<br>*Sept.* 3. 00^h p. m. + 6^h 23′<br>Ergo Diebus 6½ retardaverat 2′ 46″<br>& Quotidiè ferè 30″<br>ut hora 4 fiet 6′ 27″ | | | |
| | | | ♂ Septembris 3. *Eclipsin Solis Cœlo valde sereno Observavi.* | | | |
| ♂ 3 | 3 22 50 | 3 29 17 | Primus Limborum Solis & Lunæ contactus Tubo ped. 16. | | | |
| | 22 58 | 29 25 | Cœpta est Eclipsis. *Part. per Mic.* | ′ ″ | | |
| | 35 00 | 41 27 | Chorda Periph. deficientis — CD = 2156 | = 10 45 | | |
| | 38 10 | 44 37 | ——— iter. CD = 2462 | = 12 17 | | |
| | 42 36 | 49 03 | ——— CD = 2640 | = 13 10 | | |
| | 46 30 | 52 57 | ——— CD = 2750 | = 13 43 | *Partes lucidæ* | *Tubo ped. 8, Observante Ministro.* |
| | 51 44 | 58 11 | ——— CD = 2825 | = 14 06 | 3520 | = 28 57 |
| | 4 01 50 | 4 08 18 | ——— 2835 | = 14 09 | 3507 | = 28 50 |
| | 04 58 | 11 25 | ——— 2750 | = 13 47 | | |
| | 06 50 | 13 17 | ——— 2650 | = 13 13 | 3600 | = 29 36 |
| | 09 28 | 15 55 | ——— 2564 | = 12 48 | | |
| | 13 32 | 20 00 | ——— 2350 | = 11 43 | 3679 | = 30 15 |
| | 16 50 | 23 18 | ——— 2150 | = 10 43 | | |
| *Vide Fig.* 136. | 19 32 | 26 00 | ——— 1850 | = 09 14 | 3760 | = 30 55 |
| | 22 14 | 28 42 | ——— 1550 | = 07 44 | | |
| | 26 50 | 33 18 | Finis mihi per Tubum inspicienti dubius. | | | |
| | 26 56 | 33 24 | Certus Finis etiam Ministro supra Scenam Limbis perfectè Separatis. | | | |
| | | | Solis Diameter ——— | | 3931 | = 32 19 |


Fig. 113.
1677 Sept. 27.
Fig. 114.
Fig 115
1677 Octobr. 25.
comes
Fig. 116
1677 Nov. 1
Fig 117
Fig. 118
Saturnus
1678 Feb. 17.
Fig. 119
1678 Iunij 27.
Fig. 120
1678 Iulij 22
Fig. 121
1678 Sept. 14.
Fig. 122
1679 Iunij 14
Fig. 123
1679 Octobr. 19.
Fig. 124
1680 Ianuar 6.
Fig. 125
1680 Martij 26
Fig. 126
1680 Martij 28
parallelus declinationis
Fig 127
1680 Martij 28
Fig. 128
Occultatio Palilicij
Emers.
1680 Sept. 3
Immersio
Fig. 129
1680 Octob 3
Fig. 130
Occultatio Palilicij
Immersio
Emersio
Parallelus Declinationis
1680 Octobr. 28
Fig 131
1681 Sept. 21
Palilicium
Fig 132
Emersio
Immersio
1683 Ianuar. 26.
Fig 133
1684 Iunij 6.
Fig. 134
1687 Sol deficiens
Fig. 135
Spica Virginis
1689 Iunij 16
Fig. 136
1689 Sol deficiens Sept. 3.
Lib. I. page 350
I. Senex sculp.



I.B. Catenaro In. et delin. L. du Guernier Sculp.

# HISTORIÆ COELESTIS
## LIBRI PRIMI, PARS QUINTA; OBSERVATIONES EXHIBENS Configurationum & Eclipsium COMITUM JOVIALIUM GRENOVICI PERACTAS In Observatorio Regio, Ab Anno 1676, ad Annum 1689. Ferè Completum.

### ECLIPSES & CONFIGURATIONES quædam COMITUM JOVIALIUM observatæ.

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ab Observationibus Correcta. h ′ ″ | OBSERVATIONES *CIRCUMJOVIALIUM.* | | Part. per Mic. | ′ ″ |
|---|---|---|---|---|---|---|
| ♀ Jun. 6 | | | *Post Mediam noctem Aere valde sereno & tranquillo, Tubo pedum 16, Fixa juxta Jovem apparuit ad f, cujus ut & Satellitum ab ipso deinceps captæ distantiæ sequentes.* | | | |
| | 13 20 20 | 13 26 50 | ———— | f 4 | 2689 | = 13 25 |
| | 24 06 | 30 36 | ———— | Jupiter 4 | 805 | = 04 01 |
| | 27 00 | 33 30 | ———— | Jupiter 3 | 763 | = 03 48 |
| | 30 26 | 36 56 | ———— | Jupiter f | 1909 | = 09 31 |
| | 58 56 | 14 05 26 | Primus cœpit lumine attenuari. | | | |
| | 59 16 | 05 46 | Evanuit. | | | |
| | 59 30 | 06 00 | Nullum eo loci luminis vestigium residuum. | | | |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ab Observationibus Correcta. h ′ ″ | OBSERVATIONES *CIRCUMJOVIALIUM.* |
|---|---|---|---|
| ♀ Jun. 22 | 12 14 46 | 12 18 56 | Primus iterùm incidit in Jovis umbram ¼ Diam. à limbo ad finistram, lumine valdè diminuebatur 10″ antequàm penitùs fuerit extinctus. |
| ☉ Aug. 12 | 8 06 00 | 8 17 | Primus & Secundus adeo appropinquabant ut vix inter illos distingui potuit. |
| | 8 10½ | 8 22 | Junctos putavi. |
| | 12½ | 24 | Diutius inter eos distinguere nòn potui, videbantur enim quasi unica oblonga Stella, diametro longiore ad lineam Satellitum fere perpendiculo. |
| | 19 | 30 | Nondum secretos eos pronunciare potuerim. |
| | 30½ | 41 | Dispertiti videbantur per exiguum. |
| | 40 | 50 | Evidentissimè separati. |
| ♀ Sept. 7 | 10 03 | 10 24 30 | Quartus Emerserat ab umbra Jovis. |
| | | | *Circa octavam duo duntaxat Satellites juxta Jovem apparuere; Primus scilicet à Sinistra limbo propinquus, Quartus à dextra, Secundo tunc disco, Tertio in umbra latentibus; Primus nùnc Jovem à tergo subiturus erat; Jucundissimum erat Planetam videre nùnc duobus, mox unico, tùnc duobus iterùm, postea tribus, denique omnibus quatuor Satellitibus stipatum intra spatium quatuor horarum sequentium, ordine scilicet, & temporibus infra scriptis.* |
| ♄ 8 | 8 04 10 | 8 26 00 | Primus videbatur distinctè, limbo valdè vicinus. |
| | 05 45 | 27 44 | Vix inter hunc & limbum distingui potuit. |
| | 06 30 | 28 30 | Adhærebat limbo. |
| | 10 30 | 32 30 | Disparuerat. |
| | 9 04 | 9 26 | Secundus nondum apparuit. |
| | 09 | 31 | Necdum. |
| | 25 | 46 | Putavi me videre limbo adhærentem. |
| | 30 30 | 52 30 | Certè visus. |
| | 37 | 59 | Aliquantulum à limbo separatus valdè tenuis apparuit. |
| | 9 57 20 | 10 19 20 | Tertius cœpit emergere. |
| | 57 58 | 19 58 | Clarius emicuit. |
| | 58 56 | 20 56 | Vix adhùc adeò clarè ut Quartus. |
| | 11 20 56 | 11 42 56 | Primus cœpit emergere. |
| | 21 14 | 43 14 | Emicuit clarè. |
| ☽ 17 | | | *Duo duntaxàt apparuere Satellites, Tertius scilicet à dextra, & à sinistra Quartus, Primo cum Secundo tùnc in umbra latentibus.* |
| | 6 27 06 | 6 53 12 | Tertius à Quarto — Part. per Mic. 2470 = 12′ 19″ |
| | 31 19 | 57 25 | Quartus à limb. prox. — 1238 = 06′ 10″ |
| | 35 18 | 7 01 24 | Tertius à limb. Jovis pr. — 1014 = 05′ 04″ |
| | | | Jovis Diameter — 157 = 00′ 47″ |
| | 7 43 00 | 8 09 06 | Nullus emerserat Satelles. |
| | 43 34 | 09 40 | Primus cœpit emergere prætenuis. |
| | 44 09 | 10 15 | Emicuit clarè. |
| | | | *Emersionem Secundi paulò remotius à limbo Jovis quam tùnc esset, Primus expectabam: cui tamen adeò in propinquo emersisse credo ut inter ipsos Tubo pedum 16 distinguere nòn licuit. Etenim aliquandò ante hor. 8. 20. per horologium Primum magnitudine auctum putavi plus solito quod ab accessione Secundi juxta ipsum emergentis quidni credam.* |

| Anno Christi 1677. Styl. Vet. | Tempora per Horologium Oscillatorium h ' " | Tempora ab Observationibus Correcta h ' " | OBSERVATIONES *CIRCUMJOVIALIUM.* |
|---|---|---|---|
| ☿ Oct. 24 | 8 25 02 | 8 40 02 | Primus limbo valdè propinquus. |
| | 25 53 | 40 53 | Adhùc inter ipsum & limbum potui distinguere. |
| | 27 02 | 42 02 | Limbum certè attigit. |
| | 28 20 | 43 20 | Nihil in limbo. |
| | | | *Facta fuerit hæc observatio Tubo pedum* 57. |
| ♂ Nov. 13 | 5 20 00 | 5 31 32 | Tres solummodo juxta Jovem Satellites apparuere, secundo tùnc in umbra latente, quartus intra Jovem stabat & umbram; ut in Figura. |
| | 6 29 | 6 40½ | Omnes quatuor videbantur. |
| | 46 14 | 57 46 | Quartus lumine attenuatus videbatur. |
| | 47 00 | 58 32 | Evanuit. |
| | 48 00 | 59 32 | Certe evanuerat. |
| | | | *Multo minor reliquis Satellitibus apparuit.* |
| Anno Christi MDCLXXX. | | | |
| ☽ Oct. 11 | 14 36 00 | 14 46 30 | Primus cœpit attenuari. |
| | 36 26 | 46 56 | Adhùc visum putavi. |
| | 36 43 | 47 13 | Evanuit. |
| | 36 50 | 47 20 | Certe evanuerat. |
| | 48 04 | 58 34 | Jupiter à Fixâ revera, |
| | | | Australiore & in consequentia \| Part. per Mic. 3870 \| = ' 19 " 18 \| ♃ *f* |
| ☿ 13 | 8 48 38 | 8 58 44 | Jovis limb. rem. à Fixâ —— \| 4756 \| = 23 44 |
| | 52 00 | 9 02 06 | —— rep. \| 4607 \| = 22 59 |
| | 9 05 30 | 15 36 | Primus Satelles cœpit evanescere. |
| | 05 40 | 15 46 | Evanuerat. |
| | | | Pone Immersionem —— h ' " 09 05 35 |
| | | | Per Horologium, verè —— 09 15 41 |
| | | | Romæ Immersio observ. —— 10 07 53 |
| | | | Grenovici —— 09 15 41 |
| | | | Differentia Merid. —— 13° 03' \| = 52 12 |
| ☽ 25 *vel* ♂ 26 *mane.* | 18 29 20 | 18 35 24 | Primus cœpit lumine attenuari. |
| | 29 38 | 35 42 | Evanuerat. |
| Anno Christi MDCLXXXI. | | | |
| ☿ Sept. 21 | 17 43 20 | 17 46 34 | Primus incidit in umbram. |
| ☉ Oct. 16 | 12 23 20 | 12 29 36 | Primus incidit in umbram. |
| ♂ Nov. 8 | 12 34 20 | 12 36 50 | Incipit primus attenuari. |
| | 34 58 | 37 28 | Putavi tectum. |
| | 35 10 | 37 40 | Certe occultatum. |
| | | | Eclipsin pone $12^h$ 35' 00" per Horologium. verè 12 37 30. |
| ☉ Dec. 4 | 9 09 10 | 9 00 00 | Vel Paulò seriùs, primus & tertius videbàntur in conjunctione cum distantia quintæ vèl summum quartæ partis Diametri Planetæ. |
| | 57 24 | 48 14 | Tertius videbatur valdè attenuatus, per nubes transvolantes Conspectus. |
| | 10 07 | 9 58 | Clariùs effulgente Jove, duo duntaxàt Satellites manere visi, secundo sub facie, tertio nùnc in umbra latentibus: $9^h$ 00' Correct. tertius potiùs Jovi propinquior fuerat $9^h$ 57'. |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ab Observationibus Correcta. h ′ ″ | OBSERVATIONES *CIRCUMJOVIALIUM.* |
|---|---|---|---|
| ☉ Dec. 11 | 8 45 40 | 8 32 55 | Secundus Satelles cœpit attenuari |
| | 46 00 | 33 15 | prorsus evanuit |
| | | | Primus latebat sub facie. |
| | 14 56 30 | 14 43 35 | Tertius evanuerat. |
| | | | *Hor. 2. 43′ per Horolog. videram, &* Faber *deinceps, circiter* $2^h$ *50′ vèl posteà. Tubos tùnc mutavimus sèd adhibito breviore Satellites Tres duntaxàt manere videbantur, vix tamèn anteà evanuisse puto quàm dum Tubum aptavi, vel 1′ ante notatum tempus.* |
| Anno Christi MDCLXXXII. | | | |
| ♀ Feb. 3 | 8 03 48 | 7 46 00 | Tertius emerserat à facie, aberatque à limbo tertia pars diametri |
| | 05 14 | 47 26 | Primus cœpit emergere. |
| | 05 32 | 47 44 | Clarè conspectus. |
| ☉ 19 | 6 31 02 | 6 09 52 | Primus cœpit emergere. |
| | 31 52 | 10 42 | Clarè effulsit. |
| ☉ Mar. 5 | 10 18 28 | 10 03 53 | Primus cœpit emergere. |
| | 19 20 | 04 45 | Clarè effulgebat. |
| ♃ Apr. 20 | 10 51 16 | 10 45 00 | Primus Satelles cœpit emergere ex Umbrà, nubibus eo instante Planetam subeuntibus. |
| | 52 16 | 46 00 | Per tenues Nubes clariùs conspectus. |
| ♃ Maii 18 | 9 20 06 | 9 14 16 | Tertius Satelles cœpit emergere ex Umbrà, brevi posteà clarè conspectus. |
| ♃ Sept. 21 | 16 48 08 | 16 51 46 | Secundus cœpit attenuari. |
| | 48 50 | 52 28 | Evanuit vel anteá. |
| ☉ 24 *vel* ☽ 25 *mane.* | 17 40 20 | 17 44 26 | Quartus incipit videri. |
| | 41 46 | 45 52 | Clarè conspectus. |
| | | | *Omnes videbantur in eadem quasi recta, nisi quod Quartus emergens perparum reliquis borealior Tubo pedum 16 apparuit, revera ergo erat Australior, haud adeò clarus ut adjacens ei Satelles & visu difficilior propter fortiorem Lucem Crepusculi.* |
| ♃ Oct. 19 | 15 34 46 | | Primus cœpit attenuari. |
| | 35 18 | | Evanuit. |
| ☉ 22 | 18 29 | 18 43 | Tertius Jovis Limbo propinquior distabat à Primo, Jovis semidiametro, & Linea ducta à Primo ad Tertium tangit Jovis Limbum apparenter superiorem, vel suprà transit. |
| ♂ 24 | | | Immersio Secundi *Islingtoniæ* à Domino *Halleio* observata. |
| ☽ Nov. 13 | 18 00 00 | 17 54 00 | Secundus à Quarto minus dimidio Semidiametro Planetæ aberat, ut Linea Normalis à Quarto ducta, ad Lineam per Centrum Jovis, & Secundum Angulum quasi semirectum cum Linea utrosque jungente Constitueret. Tertius emersurus erat è Corpore, sed propter Nubes Emersionem videre non licuit. |

| ANNO CHRISTI 1682. *Styl. Vet.* | *Tempora per Horologium Oscillatorium* h ′ ″ | *Tempora ab Observationibus Correcta.* h ′ ″ | OBSERVATIONES *CIRCUMJOVIALIUM.* |
|---|---|---|---|
| ♂ Nov. 21 | | | *Hora verè 18 ¼ sive die 22, Hora 6 ¼ mane Satellites ut in picto Schemate apparuêre per Telescopia supra Sextantem, Quartus scilicet reliquis Australior revera Borealior erat.* |
| ♄ 25 *vel* ☉ 26 *mane* | 19 22 12<br>22 40 | 19 21 52<br>22 20 | Primus lumine attenuatus erat.<br>Evanuit vel anté. |
| ☽ 27 | 13 50 42<br>51 24 | 13 49 30<br>50 12 | Primus iterum lumine diminutus.<br>Evanuit.<br>*Tertius erat paulò supra, Secundus infra Lineam per Primum & Quartum.* |
| ♂ 28 | 11 28 30<br>33<br>35<br>38 40<br>40 10 | 11 27<br>31<br>33<br>37<br>38 30 | Satellites (*ut in Schemate*) junctis 1° & 2°.<br>Videbantur quasi oblonga Stella Tubo pedum 16.<br>Separaturi videbantur.<br>Separati.<br>Qui Limbo proximus medius erat inter alterum & Limbum.<br>N. B. *Quod remotior semper aliquantulùm ad Boream à Vicionere apparuit, sed vix plus propria Diametro. Certe Linea ducta per Tertium supremum, & huic proximum Secundum, relinqueret Primum infra ad Austrum.* |
| ☽ Dec. 4 | 15 45 00<br>46 00<br>46 10 | 15 39 53<br>40 53<br>41 03 | Primus lumine attenuatus apparuit.<br>Vix visus.<br>Certè diparuit, pone Eclipsin hora 15, 41′ veré.<br>*Tertius apparuit supra Lineam per Primum & Secundum.* |
| ♂ 5 | 10 11<br>17<br>23 40<br>27<br>32 | 10 05 30<br>11 30<br>18<br>21 30<br>26 30 | Primus Tertio appropinquabat.<br>Tangere ferè videbantur.<br>Videbatur Inclinatio versùs Jovem.<br>Separaturi.<br>Separati. Tubo pedum 16.<br>*Tertius ad Boream à Linea per Primum & extimum Quartum semper apparuit: Tubo pedum* 16. |
| ☿ 13 | 12 08 00<br>09 20 | 11 57 44<br>59 04 | Primus lumine attenuatus videbatur. Tubo pedum 27.<br>Evanuit. |
| ☉ 17 | 11 26 12<br>27 00<br>28 00 | 11 13 50<br>14 38<br>15 | Quartus ab Umbra emergens incipit videri valde tenuis. Tubo pedum 27.<br>Clariùs conspicitur.<br>Multò minor 2° vel 1°, adhucdum, nec adeo clarè ut posteá.<br>*Intereà Secundus vergebat ad ☌ Primi quo perparum Borealior per Tubum apparuit semidiametro circiter Corporis Primi, sed nunc Nubeculæ subibant Jovem per quas ☌ non licuit observare.* |
| ☽ 25 | 19 13 | 18 57 | Satellites ut in Figura.<br>*Scilicet ☌ Secundi & Tertii cum Latitudinis satis notabili differentia, Quartus autem à dextra infra lineam per* Jovis *centrum & Reliquos. Tubo pedum* 16. |

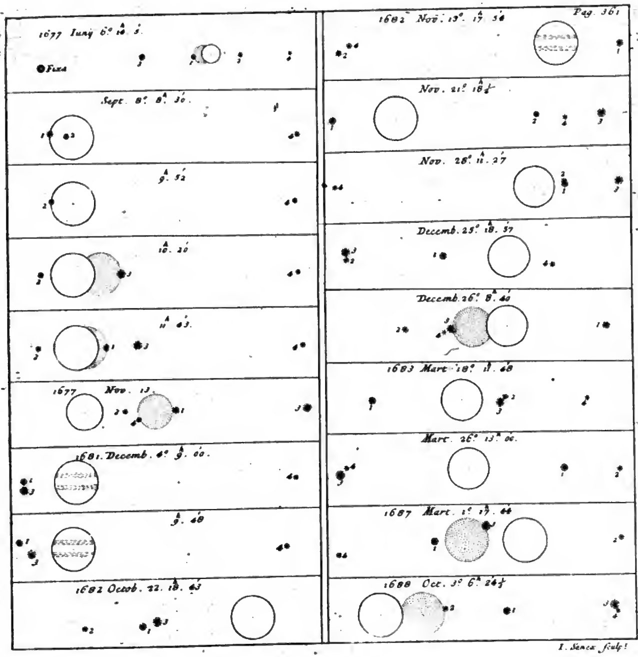
| Anno Christi 1682. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ab Observationibus Correcta. h ′ ″ | OBSERVATIONES CIRCUMJOVIALIUM. |
|---|---|---|---|
| ♂ Dec. 26 | 8 55 22 | 8 38 37 | Tertius lumine attenuatus apparuit. |
| | 56 54 | 40 09 | Valde exilis disparuisse putabam. |
| | 57 06 | 40 21 | Certé Evanuerat, Tubo pedum 16, longiorem etenim propter sævientis venti impetum tractare non licuit. Adstabat intereà Quartus prætenuis infra, ut Linea ducta per ipsum & Tertium disparituram pauló supra Limbum Jovis apparenter elevatiorem transiret. Ut in Figura. |
| Anno Christi MDCLXXXIII. | | | |
| ☉ Jan. 14 | 8 24 10 | 8 10 25 | Primus adhuc visus Satelles per Nebulam, tunc densa secuta est Nebula, per quam Planetam videre non licuit. |
| | 33 10 | 19 25 | Evanuerat, Cœlo circa Jovem valde sereno existente. |
| ♄ Mart. 3 | 8 48 | 8 33 | Tubo pedum 16 vix distinguere potui inter Secundum & Quartum, adeo arctè adhærebant longam quasi Stellam constituentes in linea ad Centrum Jovis. |
| | 9 28 | 9 13 | Separabantur valde vicini, ut tantum distinguere inter ipsos licuit, sed in Linea ad Jovis Centrum, uterque nisi forsan Quartus nunc remotior perparum, & vix sensibiliter supra ipsum. *Notatu dignissima Observatio, etenim si in eodem Plano omnes moventur prout arbitratur Celeber.* Cassinus, *tunc Secundus Quartum non texerat, sed satis amplo interposito hiatu in Conjunctione alterutros prætergressi essent.* |
| ☿ 8 | 13 31 50 | 13 18 10 | Primus emerserat, sed in Penumbra, clariùs enim brevi posteà explenduit, Secundus & Tertius ab eadem parte dispositi in recta ad Centrum tendente. |
| ☉ 18 | 11 44 | 11 33 | Omnes in recta ad Centrum Jovis, Secundus nondúm emerserat, mox juxta Tertium emersura; Aer deinde Vaporosus extiterit, ut vix Satellites cernere potuerim usque |
| | 54 | 43 | Tertium auctum putavi versus ab emersione Secundi. |
| | 59 | 48 | Clariús explendente Jove, Satellites vidi feré contiguos, brevi posteà separatos (ut in descripta figura) Secundo per Tubum Borealiore. |
| ☽ 26 | 1 07 | 12 58 30 | Satellites ut in Figura apparuêre, Linea à Tertio ad Quartum angulum semirectum efformante cum Linea ab eodem tertio ad Centrum; Distantia vix quarta pars Diametri Jovialis, forsan haud excessit sextam; quarto per Tubum Borealiore. |
| ♀ Apr. 27 | 8 22 00 | 8 19 54 | Tertius emerserat, eratque ad Boream à Linea per Secundum cum Primo ductam. |
| ☽ Oct. 22 *vel* ♂ 23 *mane* | 18 37 10 | 18 34 10 | Primus diminutus apparuit. |
| | 38 50 | 35 50 | Disparuisse putabam. |
| | 39 00 | 36 00 | Disparuit. |
| ♂ Nov. 16 | 16 14 00 | 16 03 30 | Tertius Satelles apparuit diminutus. |
| | 17 00 | 06 30 | Evanuit. |
| ☉ 18 | 15 08 00 | 14 49 00 | Secundus Satelles diminutus apparuit. |
| | 08 20 | 49 20 | Evanuit. |
| | 08 40 | 49 40 | Certe disparuerat. |
| ♄ 30 | 17 19 46 | 16 47 41 | Primus Satelles valde Diminutus. |
| | 20 00 | 47 55 | Evanuit. *Difficilis Observatio propter Ventum.* |

| Anno Christi 1683. Styl. Vet. | Tempora per Horologium Oſcillatorium h ′ ″ | Tempora ab Obſervationibus Correcta. h ′ ″ | OBSERVATIONES *CIRCUMJOVIALIUM.* |
|---|---|---|---|
| ☿ Dec. 19 | 15 52 08<br>55 10 | 15 31 58<br>35 00<br>18 52 00 | Tertius apparuit diminutus.<br>Evanuit.<br>Obſervante *Iſlingtonii* D. *Halleio* emerſerat ſed in Penumbrâ quoniam vix debitam magnitudinem acquiſiverat adhuc verſari conjiciebat. |
| ♃ 20 | 14 31 22<br>31<br>31 50 | 14 09 20<br><br>09 50 | Secundus per tenues vapores perexiguus.<br>Apparuit forſan diſparuit.<br>Evanuerat. |
| ♃ 27 | 17 20 00<br>21 06 | 16 39 45<br>40 50 | Secundus diminutus videbatur.<br>Evanuit. Accurata Obſervatio Aere perquam ſereno & tranquillo. |
| ☉ 30 | 19 22 00 | 18 34½ | Primus non apparuit; ſed dubia hæc Obſervatio. |
| Anno Christi MDCLXXXIV. | | | |
| ♂ Jan. 8 | 14 50 22 | 14 54 00 | Primus evanuit, vel forſan 10″ citius. |
| ♃ 31 | 15 11 38<br>13 04<br>25 34 | 14 56 43<br>58 09<br>15 10 40 | Primus apparuit attenuatus.<br>Evanuit.<br>Tertius evanuit. |
| ♄ Feb. 2 | 9 42 00<br>43 10 | 9 26 00<br>27 10 | Primus diminutus apparuit.<br>Primus diſparuit. |
| ♂ 12 | 10 33 30<br>34 18<br>35 12 | 10 18 27<br>19 15<br>20 09 | Dubitavi annon prætenuem Primum vidi ab Umbrâ emergentem.<br>Certè vidi minus Quarto ſemid. parte à Limbo diſtantem.<br>Clarè explenduit. |
| ♀ 28 | 8 55 42<br>56 30 | 8 41 47<br>42 35 | Primus cœpit emergere prætenuis.<br>Clarè explenduit. |
| ☉ 30 | 9 22 08<br>23 04<br>23 20<br>25 00 | 9 08 28<br>09 24<br>09 40<br>11 20 | Putavi me videre Quartum emergere incipientem.<br>Certè vidi ſed prætenuem.<br>Clarè ſed in Penumbra.<br>Haud adhuc adeo clarè ut poſtea. |
| ♄ Apr. 12 | 10 36 00 | 10 24 40 | Uterque Satelles Secundus & Tertius prodiiſſent ex Umbrâ. |
| ☉ Maii 4 | 13 02 32<br>03 30<br>04 30 | 12 52 30<br>53 30<br>54 30 | Putavi me videre Primum emergere incipientem.<br>Vidi, ſed prætenuem.<br>Certe vidi, viderit & minori Tubo pedum 8, *T. Faber* ſed exigum propter aerem vaporoſum & ſub nubilum huic quamobrem obſervationi haud multum fido. |
| ☉ 25 | 10 18 52<br>20 00<br>22 00 | 10 09 57<br>11 05<br>13 05 | Tertius cœpit emergere, vel forſan 10″ citius.<br>Haud adeo clarè emicuit ut Secundus.<br>Clarè ut Secundus. |
| ☉ Jun. 15 | 9 32 30 | 9 23 00 | Secundus emerſerat ſed vix omnino, Liber erat â Penumbra. |
| Anno Christi MDCLXXXV. | | | |
| ☉ Feb. 15 | 11 50 00<br>51 10<br>51 30<br>51 50 | 11 50 52<br>52 02<br>52 22<br>52 42 | Secundus videbatur attenuari.<br>Prætenuis.<br>Evanuit.<br>Certè aberat. |

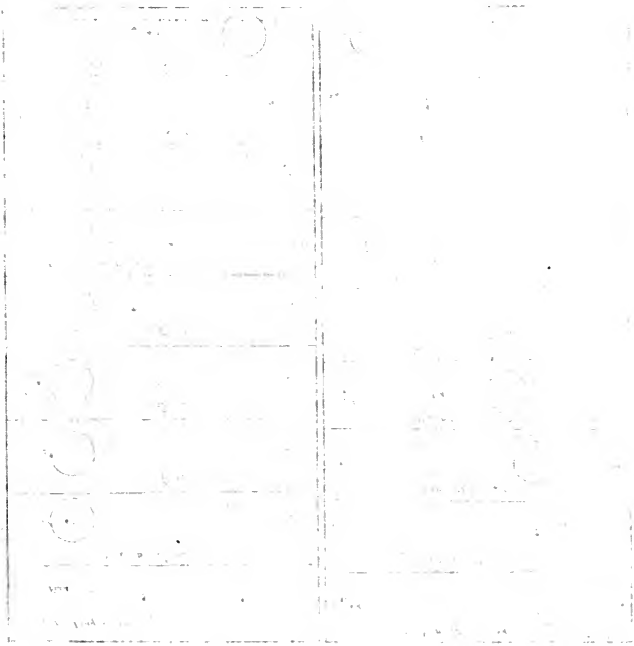
| ANNO CHRISTI 1685. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ab Observationibus Correcta h ′ ″ | OBSERVATIONES CIRCUMJOVIALIUM. |
|---|---|---|---|
| ♄ Feb. 28 | 18 42 00 | 18 45 37 | Tertius diminutius apparuit. |
| | 42 50 | 46 27 | Dubius eram an apparuit. |
| | 43 30 | 47 07 | Evanuerat. |
| | 44 00 | 47 37 | Certè non visus. |
| | | | *Pone Occultationem* $6^h\ 43'\ 20''$ *per Horologium.* |
| ♃ Mar. 12 | 8 54 30 | 9 00 50 | Secundus apparuit diminutius. |
| | 55 10 | 01 30 | Evanuit limbo valdè vicinus. |
| ☽ Apr. 13 | 11 00 06 | 11 11 30 | Secundus apparuit, sed Penumbra & nondum penitus ab umbrâ emersus. |
| | 02 00 | 13 24 | Clarè explenduit. |
| ♀ Maii 8 | 8 09 00 | 8 13 40 | Duo duntaxat visi Satellites. |
| | 09 50 | 14 30 | Tertius emergere videbatur. |
| | 10 10 | 14 50 | Sat clarè visus. |
| | 11 00 | 15 40 | Explenduit. |
| ANNO CHRISTI MDCLXXXVI. | | | |
| ♀ Jun. 2 | 10 18 00 | 10 26 10 | Tertius emersat, sed tenuis apparuit adhuc in Penumbrâ. |
| ♃ 10 | 8 51 08 | 8 57 12 | Secundus incipit emergere forsan 10″ citiùs. |
| | 52 06 | 58 10 | Clarè explenduit, sed in Penumbra. |
| ☉ 13 | 9 13 36 | 9 17 56 | Primus cœpit emergere Tubo ped. 16. |
| | 13 56 | 18 16 | Clarè explenduit etiam visus Tubo ped. 8. |
| ♂ Julii 6 | 9 41 56 | | Primus emergebat Observante ministro. *Calc.* $9^h\ 30'\frac{1}{2}$. |
| | 42 30 | | Clarè explenduit Tubo ped. 16. |
| ANNO CHRISTI MDCLXXXVII. | | | |
| ☽ Jan. 17 | 18 10 56 | 17 52 56 | Tertius cœpit emergere. *Calc.* $18^h\ 14'$. |
| | 14 00 | 56 00 | Clarè explenduit. |
| ♂ 18 | 18 28 38 | 18 09 38 | Primus cœpit evanescere, evanuit Tubo ped. 16. Obs. *J. S.* |
| | 29 24 | 10 24 | Dubio an apparuit. |
| | 29 50 | 10 50 | Evanuit Tubo ped. 27. *Calc.* $18^h\ 05'\frac{1}{4}$. |
| ♃ Feb. 10 | 18 35 30 | 18 18 10 | Primus cœpit attenuari. |
| | 36 22 | 19 02 | Vix conspectus. |
| | 36 30 | 19 10 | Certè evanuit, Tubo ped. 27. *Calc.* $18^h\ 12'\frac{1}{4}$. |
| ☽ 28 | 15 30 00 | 15 09 10 | Tertius disparuit paulo ante visus. |
| | 18 03 00 | 17 42 10 | Tertius incipit emergere. |
| | 03 14 | 42 24 | Clarius conspectus. |
| | 04 00 | 43 10 | Adhuc in Penumbrâ. |
| | 05 00 | 44 10 | Clarius ut Primus, Tubo ped. 27. *Linea à Quarto ad Tertium radebat Jovis Limbum. Accurata hæc & diligens Observatio, Cælo sereno.* |
| ♄ Jun. 18 | 12 59 22 | 12 57 02 | Secundus Satelles cœpit emergere, distinctè conspectus. |
| | 13 00 00 | 57 40 | Explenduit clarè ut Quartus. |
| ☽ Julii 25 | 10 58 58 | 10 42 18 | Primus cœpit emergere. |
| | 59 40 | 43 00 | Adhuc Penumbrâ. |
| | 11 01 10 | 44 30 | Clarè explenduit. |
| | | | *Observante ministro,* J. Staff. *Tubo ped.* 27. *me* Burstovii *absent.* |

| Anno Christi 1688. Styl. Vet. | Tempora per Horologium Oscillatorium h ' " | Tempora ab Observationibus Correcta h ' " | OBSERVATIONES *CIRCUMJOVIALIUM.* |
|---|---|---|---|
| ☉ Aug. 5 | 10 19 40 | 10 15 10 | Primus cœpit videri in Penumbra prætenuis Tubo ped. 27. |
| | 20 40 | 16 10 | Clarè explenduit. |
| ♂ 7 | 8 46 42 | 8 42 22 | Quartus videbatur tantum à limbo separatus. |
| | 58 42 | 54 22 | Secundus ab Umbrâ emergens videri incipit. |
| | 9 00 20 | 56 40 | Valdè clarè & distinctè conspectus. |
| | 11 29 40 | 11 25 20 | Quartus in Umbram emersurus videbatur lumine diminutus. |
| | 31 40 | 27 20 | Dubitavi an viderem, pone immersionem. |
| | 32 00 | 27 40 | Certè evanuerat, Tubo ped. 27. accuratis. utriusq; noctis Observat. |
| ♀ 24 | 10 18 48 | 10 16 48 | Quartus emerserat Tubo ped. 27. sed adhuc sic puto in Penumbrâ, pone immersionem uno minuto citiùs, si sequentes permittent Observationes. |
| ☽ 27 | 9 38 40 | 9 36 40 | Tertius videri incipit, Tubo ped. 27. |
| | 39 00 | 37 00 | Clarè conspectus |
| | 40 00 | 38 00 | Vix adeo adhuc lucidus ac Secundus. |
| | 41 00 | 39 00 | Valdè claré. |
| ♄ Sept. 29 | 7 22 00 | 7 25 15 | Primus incipit videri, Tubo ped. 27. |
| | 22 20 | 25 35 | Distinctè conspectus, sed prætenuis. |
| | 22 40 | 25 55 | Valdè claré. |
| | 23 00 | 26 15 | Haud adhuc adeo dilucidè ut postea. |
| ♂ Oct. 2 | 5 52 00 | 5 55 25 | Tertium me videre putabam, Tubo ped. 16. |
| | 52 20 | 55 45 | Certè vidi exilem valde. |
| | 53 00 | 56 25 | Distinctè, sed prætenuis. |
| | 54 00 | 57 25 | Ut Secundus aut Primus. Quartus ægrè videbatur propter vaporosum aerem, etiamsi haud procul aberat à maximâ Elongatione. |
| ☿ 3 | 6 11 36 | 6 14 56 | Secundus incipit emergere jamprimum visus Tub. ped. 27. |
| | 12 00 | 15 20 | Parvus adhuc. |
| | 13 00 | 16 20 | Haud adeo clarè effulsit ut Primus. Interea Tertius & Quartus appropinquabant ad conjunctionem, Quartus erat sensibiliter australior. |
| | 21 00 | 24 20 | Tandem tantum inter eos distinguere potui, sed positio ad Lineam per Jovis Centrum videbatur, qualis adpingitur, Tubo ped. 14. vix distinguendi. |
| | 48 | 51 | Inclinatio Lineæ per Satellites adhuc videbatur ad dextram. |
| | 54 | 57 | Vergere incipiebat ad sinistram arctissimâ sed sensibili inter eos manente distantia ¼ Diametri Jovis. |
| ♂ 9 | 6 20 00 | 6 23 00 | Tertius videbatur lumine diminutus. |
| | 21 00 | 24 00 | Minor, sed adhuc satis lucidus. |
| | 22 00 | 25 00 | Disparuit, observanti, *A. S.* Tubo ped. 16. |
| | 22 10 | 25 10 | Disparuit mihi Tubo ped. 27. paulo supra lineam per Centrum Jovis & Secundum tunc in maximâ ferè Elongatione. |
| ♂ 30 | 5 48 00 | 5 46 05 | Duo duntaxat Satellites 2us scilicet & 3us, 4us à sinistra. |
| | 58 00 | 56 05 | Putavi Primum è limbo antecedente emersurum ipsi adhærere. |
| | 6 07 40 | 6 05 45 | Primus videbatur tantum à limbo separatus. |
| | 12 00 | 10 05 | Distinctè seperatus. |
| | 36 00 | 34 05 | Quartus videbatur lumine diminutus. |
| | 38 00 | 36 05 | Vix visibilis. |
| | 38 50 | 36 55 | Certè disparuit, Tubo ped. 27. |
| ☉ Nov. 4 | 6 05 12 | 6 01 27 | Secundus incipit emergere, Tubo ped. 27. |
| | 06 00 | 02 15 | Distinctè conspectus sed adhuc tenuis. |
| | 07 00 | 03 15 | Non adeo clarè adhuc ut postea. |

| Anno Christi 1689. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ab Observationibus Correcta. h ′ ″ | OBSERVATIONES CIRCUMJOVIALIUM. |
|---|---|---|---|
| ☉ May. 19 | 13 20 | 13 21¼ | Nondum emerserat Quartus. |
| | | | *Deinde densæ nubes usque* 1ʰ 34′, *per Horologium.* |
| | 13 35 | 13 36¼ | Clarè effulsit Quartus. |
| | 14 05 | 14 06 15 | Tertius incipit emergere. |
| | 05 30 | 06 45 | Clarè conspectus sed tenuis. |
| | 06 20 | 07 35 | Distinctè ut Quartus. |
| | | | *Observabat* A. S. *me* Burstovii *absente.* |
| ☉ Julii 7 | 15 01 00 | 14 45 15 | Primus apparuit diminutus, Tubo ped. 27. |
| | 01 50 | 46 05 | Ægrè conspectus. |
| | 02 06 | 46 21 | Pone Eclipsin 15ʰ 02′ per hor. vere 14ʰ 46′ 15″ Tertius à Quarta vix aberat ⅓ part. Diametri. |
| | | | *Nondum tamen conjuncti fuere cum primus evanuerit. Fixa apparuit juxta Jovem. Vide Jovis Observationes.* |
| ♂ 16 | 11 08 00 | 11 06 40 | Primus apparuit diminutus. |
| | 09 00 | 07 40 | Adhuc conspectus Tubo brevi. |
| | 09 18 | 07 58 | Dubium an apparuit Tubo ped. 27. |
| | 09 30 | 08 10 | Evanuit certè. |
| | | | ⁂ Notatu dignum quod non nisi 20″ citius per Tubum ped. 8. quam per Longiorem ped. 27. Satelles disparuerit. |
| | | | *Conjunctio Primi & Secundi circiter* 10ʰ 50′ *per Horologium, Observante,* A. S. |
| ♄ Aug. 24 | 11 45 48 | 11 59 56 | Primus videri incipit prætenuis ab umbrâ emergens. |
| | 46 40 | 12 00 48 | Clarè emicuit. |
| | 47 50 | 01 58 | Æqualis Secundo, Observante *A. S.* Tubo ped. 27. |
| ♂ Sep. 2 | 7 57 40 | 8 03 52 | Secundus nondum apparuit. |
| | 58 00 | 04 12 | Nunc primum visus prætenuis. |
| | 58 40 | 04 52 | Clarè satis. |
| | 8 00 00 | 06 12 | Haud Quarto minor. |
| | 16 24 | 22 36 | Nubes cœpere vexare, quem mox postea densæ subire, ut Primi Emersionem ver. 8ʰ 24′; futuram cernere non licuerit. |




I. Senex sculp!





L. du Guernier Sculp.

# HISTORIÆ COELESTIS

## LIBRI PRIMI, PARS SEXTA; OBSERVATIONES MACULARUM SOLARIUM GRENOVICI

In Observatorio Regio,

Ab Anno 1676, ad Annum 1689.

Ferè Completum,

PERACTAS, EXHIBENS.

| | |
|---|---|
| ANNO CHRISTI 1676. *Styl. Vet.* | |
| ♀ Jul. 26 *vel* ♃ 27 | MAne, Solis capturus Altitudines pro Errore Horologii exinde eruendo, Maculam vidi oblongam, ipsius Disco inhærentem, Sextam circiter Diametri partem, intra Solem, à limbo ejus sequente distantem ; cujus deinde forma, Telescopio pedum octo considerata, talis apparuit qualis in Figura depingitur : Longitudo erat dupla circiter Latitudinis ; pars in figura superior, revera Australis, (quæ ab alia Boreali exigua ab utraq; parte fissura discreta, brevi separatura videbatur,) constrictior aliquantulum apparuit. Tota Longitudo vix minutum integrum exuperabat, nec multum ab ea defecit ; Latitudo dimidium circiter erat minuti : Infra Maculam principalem, & in consequentia ejus, duæ aliæ pusillæ & tenuiores videbantur, quas in Figura Literis c c signavi, deinde observata. |

| Anno Christi 1676. Styl. Vet. | Tempora Correcta. h ' " | OBSERVATIONES Maculæ sub Sole. | Part. per Mic. | ' " |
|---|---|---|---|---|
| ☿ Jul. 26 | 21 35 13 | Maculæ medium, à limbo Solis proximo | 710 | = 5 47 |
| vel | 55 00 | Distantia Azimutharum per limbum Solis sequentem & Maculam | 1383 | = 11 22 |
| ♃ 27 mane. | 22 30 40 | Eadem Azimutharum distantia, Hora 22h 03' ½ Angulus Circuli Verticalis cum Ecliptica, calculo erutus erat 43° 55', Solis Semidiameter 15' 53", ergo Macula | | |
| | | In Consequentia Centri Solis 9' 34" | | |
| | | Cum Latitudine Australi 3 25 | | |
| ♀ 28 | | *P. M. iterum Maculam contemplandi factâ Copiâ; Mutata paululum quoad formam & situm videbatur, remotior scilicet à limbo, & fissura antedicta latior, nondum tamen pars septentrionalis à Meridionali discissa penitus fuerit, capta tunc.* | | |
| | 4 38 00 | Maculæ à limbo proximo distantia | 1185 | = 9 45 |
| | 51 30 | Differentia Altitudinum Mediæ Maculæ, & limbi Solis apparenter Inferioris | 1987 | = 16 21 |
| | | Angulus Circuli Verticalis & Eclipticæ, supputatus ad 4h 51' ½ erat 65° 58', ergo Macula | | |
| | | In Consequentia Centri Solis 5' 53" | | |
| | | Cum Latitudine Meridionali 2 50 | | |
| | | Mane in duas fere dispertita videbatur, tenui admodum collo partes adhuc connectante, tunc Observata | | |
| ♀ 28 | 21 37 20 | Distantia Maculæ à limbo Solis proximo *m l* | 1345 | = 11 03 |
| | 22 22 00 | rep. | 1365 | = 11 14 |
| | 31 00 | Distantia Azimutharum per limbum Solis sinistrum, & Maculam *m z* | 1905 | = 15 40 |
| | | Hora 22 22' Angulus parallacticus calculo erutus 50° 51' ½ ergo Macula | | |
| | | In Consequentia Centri Solis 3' 05" | | |
| | | Cum Latitudine Austrina 3 27 | | |
| | | Post Meridiem | | |
| ♄ 29 | 3 45 40 | Maculæ distantia à limbo proximo Solis *m l* | 1430 | = 11 46 |
| | 52 12 | Differentia Altitudinum limbi Solis superioris, & Maculæ *m z* | 1653 | = 13 36 |
| | 54 08 | Isthæc Differentia | 1666 | = 13 47 |
| | 56 16 | Macula à limbo proximo | 1447 | = 11 55 |
| | 59 35 | Solis Diameter | 3880 | = 31 54 |
| | | Hora 3 54' 08" Angulus parallacticus calculo Investigatus 69° 03', ergo Macula | | |
| | | In Consequentia Centri Solis 2' 25" | | |
| | | Cum Latitudine Austrina 3 10 | | |
| | | * Nunc in duas plane divisa fuit, & pars revera Borealis mox in plures desperititura videbatur, mane sequente vel | | |
| ♄ 29 | 21 09 00 | Media Macula à limbo proximo Solis *m l* | 1495 | = 12 18 |
| vel | 15 00 | Differentia Altitudinum ejusdem, & limbi Solis superioris *z m* | 1686 | = 13 53 |
| ☉ 30 mane. | | Hora 21 15' Angulus parallacticus erat 50° 58' Ergo Macula | | |
| | | In Antecedentia Centri Solis 0' 37" | | |
| | | Cum Latitudine Austrina 3 33 | | |

| Anno Christi 1676. Styl. Vet. | Tempora Correcta. h ′ ″ | OBSERVATIONES Maculæ sub Sole. | Part. per Mic. | ′ ″ |
|---|---|---|---|---|
| | | Nunc in tres partes discissa apparuit, quarum forma qualis in Figura depingitur, deinde post Meridiem | | |
| ☉ Jul. 30 | 5 33 16 | Distantia Azimutharum per Solis limbum consequentem, & Mediam Maculam——*m z* | 1937 | = 15 58 |
| | 35 18 | Distantia Mediæ Maculæ, à limbo Solis proximo—— | 1479 | = 12 11 |
| | | Hora 5 33′ 16″ Angulus Circuli, Verticalis & Eclipticæ, calculo investigatus erat 67° 44′, Macula ergo | | |
| | | In Antecedentia Centri Solis——— 1′ 28″ | | |
| | | Cum Latitudine Austrina——— 3 25 | | |
| ☽ Jul. 31 *vel* ♂ Aug. 1 *mane.* | | Maculæ nunc magis ab alterutris distare videbantur quam antehac, observavi——— | | |
| | 20 45 00 | Differentia Altitudinum limbi Solis apparenter inferioris, & Maculæ———*m z* | 1587 | = 12 58 |
| | 21 01 53 | Macula à limbo proximo———*m l* | 990 | = 8 08 |
| | 10 08 | ———rep. | 971 | = 7 59 |
| | 14 03 | Differentia Altitudinum iterata——— | 1605 | = 13 13 |
| | 24 50 | Distantia à limbo repetita——— | 965 | = 7 56 |
| | | Hora 21 24′ 50″ Angulus Circuli Verticalis & Eclipticæ, Calcula investigatus, erat 50° 01′; ergo Macula | | |
| | | In Antecedentia Centri Solis——— 6′ 48″ | | |
| | | Cum Latitudine Austrina——— 4 09 | | |
| | | Exigua nunc Nubeculosa in Antecedentia principalium apparuit ut in Figura. | | |
| ♂ Aug. 1 | 19 17 05 | Macula à limbo Solis proximo———*m l* | 649 | = 5 20 |
| *vel* | 24 12 | ———rep. | 655 | = 5 23 |
| ☿ 2 | 20 01 21 | ———iter. | 647 | = 5 19 |
| *mane* | 05 40 | Differ. Altitudinum. limbi Inferioris & Macul.——— | 1217 | = 10 01 |
| | 08 05 | Isthæc differentia accurate——— | 1199 | = 9 52 |
| | 10 43 | Maculæ à limbo distantia———rep. | 655 | = 5 24 |
| | | Hora 20 08′ 05″ Angulus Eclipticæ & Circuli Verticalis supputatus 33 23, Maculæ ergo——— | | |
| | | In Antecedentia Centri Solis——— 9′ 19″ | | |
| | | Cum Latitudine Austrina——— 3 55 | | |
| ☿ 2 | 21 04 39 | Macula revera Australissima à limbo——— | 386 | = 3 10 |
| *vel* | 9 56 | Diff. Alt. ejusdem & limbi Solis Inferioris app.——— | 1014 | = 8 21 |
| ♃ 3 | 12 20 | ———rep. | 1015 | = 8 21 |
| *mane* | 18 31 | Macula à limbo iterum——— | 365 | = 3 00 |
| | 21 55 | ———rep. | 367 | = 3 01 |
| | 26 11 | Differ. Alt. limbi Solis Inferioris & Maculæ——— | 1047 | = 8 37 |
| | 29 50 | Inter Maculas——— | 105 | = 0 53 |
| | 32 40 | Macula à limbo proximo——— | 365 | = 3 00 |
| | 36 20 | Diff. Alt limbi Solis Inferioris & Maculæ——— | 1073 | = 8 50 |
| | 43 20 | Solis Diameter——— | 3872 | = 31 55 |
| | | Hora 21 36½ Angulus parallacticus calculo inventus 41° 15′, ergo Macula | | |
| | | In antecedentia Centri Solis———12′ 28″ | | |
| | | Cum Latitudine Australi——— 3 27 | | |
| | | Maculæ tres adhucdum apparuere, sed media minor quam antehac; australissimam revera præcedebat tenuis nubeculosa——— | | |
| | | *Eodem die post Meridiem vel* | | |
| | 4 16 40 | Diff. Alt. limbi Solis inferioris, & Maculæ———*m z* | 2930 | = 24 05 |
| | 20 29 | Diff. Alt. limbi Solis superioris, & Maculæ———*m s* | 1003 | = 8 15 |
| | 23 26 | Macula à limbo Solis proximo———*m l* | 290 | = 2 24 |

| Anno Christi 1676 Styl. Vet. | Tempora Correcta. h ' " | OBSERVATIONES Maculæ ſub Sole. | Part. per Msc. | ' " |
|---|---|---|---|---|
| ♃ Aug. 3 | | Hora 4 16° ½ *p. m.* Angulus parallacticus, caluclo repertus, 69 44, hinc Maculæ ſub Sole locus colligitur | | |
| | | In antecedentia Centri ———— 12′ 28″ | | |
| | | Cum Latitudine Auſtrali ———— 3 27 | | |
| | | *Nulla formæ Mutatio ſenſibilis* | | |
| | | Duæ duntaxit Maculæ apparuere, limbo valde vicinæ, tunc | | |
| ♃ 3 *vel* | 19 38 30 | Diff. altitud. limbi Solis Inferioris & Maculæ, apparenter ſuperioris, ———— *m z* | 748 | = 6 09 |
| ♀ 4 *mane* | 54 30 | Macula eadem à limbo proximo ———— | 161 | = 1 19 |
| | | Hora 19 54½′ Angulus Circuli Verticalis & Eclipticæ erat 32° 10′, Ergo Macula | | |
| | | In antecedentia Centri Solis ———— 14′ 02″ | | |
| | | Cum Latitudine Meridionali ———— 4 04 | | |
| ♂ Oct. 17 | | *Viſum me veniens* D. Haynefius, *inter Colloquia narravit; ſibi ſolem pridie forte intuenti, viſam intra diſcum Maculam, notabili ſatis ſpatio à limbo diſtantem: Sudum tunc erat. Tubum ergo Pedum* 16, *mox ad Solem adhibuimus, quo eandem vidi ejuſq; formam determinavi, qualis in Figura depingitur; deinde, Tubo breviore pedum* 8, *diſtantias cæpi ſequentes.* | | |
| ☽ Oct. 16 *vel* | 23 16 00 | Diſtantia Azimutharum per limbum Solis ſequentem & Maculam ———— *m z* | 1773 | = 14 35 |
| ♂ 17 *mane* | | ———— rep. | 1735 | = 14 16 |
| | 33 00 | Maculæ à limbo Solis proximo ———— *m l* | 1402 | = 11 32 |
| | 23 45 00 | Angulus Circuli verticalis & Eclipticæ ad horam 23 33′ calculo eruitur 65° 48′, ergo Macula tunc | | |
| | | In conſequentia Centri Solis ———— 03′ 33″ | | |
| | | Cum Latitudine Auſtrina ———— 03′ 08″ | | |
| | | *Poſt tres continuò nubilos dies, iterùm Obſervata Macula.* | | |
| ♃ Oct. 19 | 0 29 40 | Diſtantia à limbo Solis proximo ———— *m l* | 1079 | = 08 52 |
| | 33 00 | ———— rep. | 1100 | = 09 03 |
| | 39 40 | Maculæ à limbo Solis remotiore diſtantia ———— | 2887 | = 23 45 |
| | 53 00 | Solis Diameter ———— | 3946 | = 32 28 |
| | 59 50 | Macula à limbo remotiore ———— | 2910 | = 23 55 |
| ♀ 20 | 00 03 00 | Macula à limbo remotiore ———— rep. | 1080 | = 08 52 |
| | 08 00 | Diff. alt. limbi Solis ſup. & Maculæ ———— *z m* | 2065 | = 16 58 |
| | 10 50 | Diff. alt. limbi Solis infer. & Maculæ ———— *s m* | 1975 | = 16 14 |
| | | Solis Diameter ———— | 3965 | = 32 36 |
| | | Hora 00 8′ p. m. Angulus parallacticus ſupputatus erat 71° 36′, ergo Macula | | |
| | | In antecedentia Centri Solis ———— 06′ 48″ | | |
| | | Cum Latitudine Meridionali ———— 01′ 48″ | | |

| Anno Christi 1676. Styl. Vet. | Tempora Correcta. h ′ ″ | OBSERVATIONES Maculæ ſub Sole. | Part. per Mic. | ′ ″ |
|---|---|---|---|---|
| | | Macula limbo valdè vicina latitudine multò contractior apparuit, tunc Obſervata | | |
| ☽ Oct. 23 | 3 15 50 | ——— m z | 2363 | = 19 26 |
| | 22 20 | ——— m s | 1592 | = 13 05 |
| | 23 40 | Macula à limbo proximo Solis ——— m l | 170 | = 01 24 |
| | 26 45 | ——— rep. | 154 | = 01 16 |
| | 30 45 | ——— s m | 1565 | = 12 57 |
| | 36 12 | ——— z m | 2425 | = 19 56 |
| | | Hora $3^h$ 16′ Angulus Circuli verticalis & Eclipticæ calculo erutus 79° 30′, ergo Macula<br>In antecedentia Centri Solis ——— 14′ 59″<br>Cum Latitudine Meridionali ——— 00′ 40″ | | |
| | | *Collatis Obſervationibus Dierum 17 & 20, liquebit Maculam in eadem fuiſſe Longitudine cum Centro Solis, Die 18 circa Meridiem. Exeuns è Sole ſatis habuit conſiſtentiæ ad aliam revolutionem peragendam: Hoc ſi fiat, ad eundem locum redituram concluſi die 14° Novembris, & ad limbum iterùm apparituram 8° vel 9° die; nèc meam fefellit expectationem, etenim.* | | |
| ☿ Nov. 9 | | *Poſt Meridiem: Maculam iterùm vidi Solem ingreſſam, ſeſquiminutum circiter à limbo diſtantem, Tubo breviore; quo deinceps dimenſus ſum.* | | |
| | 0 38 12 | Differentiam alt. limb. Solis ſup. & Maculæ ——— m z | 1370 | = 11 16 |
| | 42 00 | Maculæ à limbo proximo diſtantiam ——— | 164 | = 01 20 |
| | 45 30 | à limbo remotiore ——— | 3847 | = 31 38 |
| | | Solis Diametrum ——— | 3968 | = 32 35 |
| | | *Deinde denſi adeò Vapores excepere Solem, ut per ipſos licuit illum nudis Oculis intueri. Adhibito tum longiore Tubo abſque vitro rubro, (quo Oculum adverſus ejus ſplendorem munire ſoleo) Maculam contemplatus ſum: diſtincta valdè videbatur, ejuſq; figura quæ in Schemate adpingitur. Nubecula ipſi circumducta Elliptica omninò; ſed quod valdè miratus ſum, admodùm dilatata à parte limbum reſpiciente; ab altera vero verſus centrum, Maculæ fere cohærere videbatur. Obſervavi dein* | | |
| | 2 16 00 | Maculæ à limbo proximo diſtantiam ——— | 245 | = 01 13 |
| | 23 00 | ——— m z | 2985 | = 14 54 |
| | 27 40 | ——— m s | 3365 | = 16 47 |
| | | Hora 12 38′ Angulus parallacticus erat 81° 11′, ergo Macula<br>In conſequentia Centri Solis ——— 14′ 45″<br>Cum Latitudine Auſtrali ——— 03′ 15″ | | |
| ♀ 10 | 23 47 00 | Macula à limbo Solis prox. & ſequente ——— | 689 | = 05 40 |
| *vel* | 57 00 | ——— rep. | 715 | = 05 53 |
| ♄ 11 | 0 10 00 | ——— iter. | 625 | = 05 09 |
| *mane* | 22 00 | Macula à limbo remotiore ——— | 3216 | = 26 27 |
| | | Tùnc nubes, per quas nihil ampliùs Obſervare licuit. | | |
| ♄ Nov. 11 | 23 53 30 | Diff. alt. limbi Solis inferioris & Maculæ ——— s m | 4033 | = 20 07 |
| *vel* | 58 20 | limbi ſuperioris & Maculæ ——— z m | 2420 | = 12 04 |
| ☉ 12 | 0 00 50 | Macula à limbo Solis proximo ——— | 1626 | = 08 07 |
| *mane* | 04 30 | Macula à limbo Solis remotiore ——— | 4851 | = 24 12 |

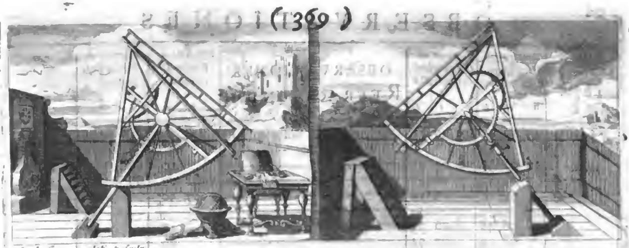
| ANNO CHRISTI 1676. Styl. Vet. | Tempora Correcta. h ' '' | OBSERVATIONES MACULÆ sub SOLE. | Part. per Mic. | ' '' |
|---|---|---|---|---|
| ♄ Nov. 11 vel ☉ 12 mane | | Angulus Circuli verticalis & Eclipticæ, hora 23 58' ⅓ erat 78° 8'; Macula ergo In Consequentia Centri Solis —— 07' 39'' Cum Latitudine Austrina —— 02' 34'' | | |
| ☽ 13 vel ♂ 14 A. M. | 23 06 00 | Macula à limbo proximo Solis —— | 2885 | = 14 24 |
| | 09 40 | —— m A | 3189 | = 15 55 |
| | 18 10 | —— rep. | 3189 | = 15 55 |
| | 22 40 | —— m B | 3255 | = 16 14 |
| | 24 45 | —— m A | 3186 | = 15 54 |
| | 26 15 | Macula à limbo remotiore —— | 3520 | = 17 34 |
| | 29 00 | Macula à limbo proximo —— | 2901 | = 14 28 |
| | 31 00 | Solis diameter —— | 6509 | = 32 28 |
| | | Cœlum erat valde serenum. Angulus parallacticus calculo repertus ad horam 23 24' 45'' erat 78° 44': Maculæ locus ergò In Consequentia Centri Solis —— 00' 28'' Cum Latitudine Australi —— 01' 28'' | | |
| ♀ 15 | 0 07 30 | Macula à limbo Solis remoto —— | 3855 | = 19 13 |
| | 10 00 | Macula à limbo Solis proximo —— | 2576 | = 12 51 |
| | 13 00 | —— z m | 3120 | = 15 34 |
| | 17 40 | —— s m | 3330 | = 16 37 |
| | 2 23 50 | Macula à limbo Solis proximo —— | 2540 | = 12 40 |
| | 26 00 | —— z m | 2894 | = 14 26 |
| | 28 40 | —— s m | 3515 | = 17 32 |
| | 32 00 | Macula à limbo Solis remoto —— | 3928 | = 19 36 |
| | | Hora 0 13' ½ Angulus parallacticus calculo erutus 81° 27' ½: Macula ergò In antecedentia Centri Solis —— 03' 02'' Cum Latitudine Austrina —— 00' 59'' | | |
| ♃ 16 | 1 04 00 | Macula à limbo Solis remotiore —— | 4567 | = 22 47 |
| | 07 00 | —— m s | 3322 | = 16 34 |
| | 10 40 | —— m z | 3151 | = 15 43 |
| | 13 00 | Macula à limbo proximo Solis —— | 1874 | = 09 21 |
| | 17 00 | Solis Diameter Horizonti parallelus —— | 6538 | = 32 37 |
| | 19 00 | Solis Diameter verticalis —— | 6522 | = 32 32 |
| | 23 00 | —— m z | 3075 | = 15 20 |
| | | —— vel | 3058 | = 15 15 |
| | | Hora 1 07' p. m. Angulus Circuli verticalis & Eclipticæ, calculo investigatus, erat 89° 36: Macula propterea In Antecedentia Centri Solis —— 06' 43'' Cum Latitudine Australi —— 00' 08'' *Huic an aliquid addendum sit propter Refractiones necnè dubium videtur.* | | |
| ☉ Nov. 19 | 0 49 30 | Macula à limbo remoto —— | 6192 | = 30 53 |
| | 53 20 | Macula à limbo proximo —— | 308 | = 01 32 |
| | 58 30 | —— z m | 3285 | = 16 23 |
| | 1 02 00 | —— s m | 3157 | = 15 45 |
| | | *Macula nunc limbo vicina contractior quam diebus præcedentibus apparuit.* | | |

| Anno Christi 1676. *Styl. Vet.* | *Tempora Correcta.* h ′ ″ | OBSERVATIONES Maculæ ſub Sole. | *Part. per Mic.* | ′ ″ |
|---|---|---|---|---|
| | | Hora o 58′ Angulus Circuli verticalis & Eclipticæ erat 89° 51′, ergò Macula<br>In antecedentia Centri Solis ——— 14′ 40″<br>Cum Latitudine ſeptentrionali ——— 00′ 22″ | | |
| ☽ Nov. 20 | 1 06 40 | ——— *z m* | 3191 | = 15 55 |
| | | ——— *s m* | 3245 | = 16 12 |
| | | *Adeò tenuis erat Macula, propter ejus vicinitatem limbo, ut non abſque difficultate has menſuras licuit aſſequi. Diſtantia ejus à limbo vix æquabat ſcrupuli primi partem tertiam.*<br>Hora 1 6′ 40″ Angulus parallacticus erat 88° 03′; ergò Macula<br>In Antecedentia Centri Solis ——— 16′ 10″<br>Cum Latitudine Boreali ——— 00′ 24″ | | |
| | | Videbatur Macula, antequam è viſibili diſco exiit, eam habere conſiſtentiam ut durare poſſet in alteram revolutionem; ejus ergo Reditum expectare ſtatui Menſe Decembris. Hujus ſexto Die, ſudo exiſtente cœlo, Tubum breviorem ad Solem adhibui, & Maculam regreſſam intra diſcum vidi. Tùnc Obſervata eſt | | |
| ♂ Dec. 5 | 23 27 00 | ——— *m s* | 2635 | = 21 20 |
| ☿ *vel* 6 *mane* | 37 00 | ——— *m z* | 1421 | = 11 41 |
| ☿ 6 | 0 20 00 | Macula à limbo proximo ——— | 137 | = 01 08 |
| | | ——— | 139 | = 01 09 |
| | 27 00 | ——— *m z* | 1700 | = 13 59 |
| | 30 00 | ——— *m s* | 2305 | = 18 57 |
| | 32 00 | Solis diameter ——— | 3987 | = 32 46 |
| | | ——— rep. | 3994 | = 32 50 |
| | 39 00 | Macula à limbo proximo ——— | 143 | = 01 10 |
| | | Hora o 27′ p. m. Angulus Circuli verticalis & Eclipticæ erat 87° 37′; ergò Macula<br>In conſequentia Centri Solis ——— 14′ 49″<br>Cum Latitudine Auſtrina ——— 03′ 00″ | | |
| ♃ 7 | 0 00 00 | Macula à limbo proximo ——— | 467 | = 02 20 |
| | 03 00 | ——— rep. | 478 | = 02 23 |
| | 0 09 00 | Macula ſuperior limbo revera inferiori ——— *z m* | 2700 | = 13 28 |
| | 46 00 | Macula inferior limbo ſuperiori ——— *s m* | 2200 | = 18 05 |
| | 48 00 | ——— rep. | 2187 | = 17 59 |
| | 53 00 | ——— *z m* | 1860 | = 15 17 |
| | 59 00 | ——— rep. | 1882 | = 15 27 |
| | 1 03 00 | ——— inter. | 1924 | = 15 49 |
| | 09 20 | Differentia Declinationum limbi Solis verè Auſtralis & Maculæ ——— | 1617 | = 13 18 |
| | 15 00 | ——— rep. | 1647 | = 13 33 |
| | 17 00 | Macula à limbo proximo ——— | 354 | = 02 55 |
| | 21 20 | Solis diameter ——— | 3970 | = 32 39 |
| | | Macula à limbo iterùm. *Tubo Longiore* ——— | 515 | = 02 35 |

| ANNO CHRISTI 1676. Styl. Vet. | Tempora Correcta. h ' '' | OBSERVATIONES MACULÆ sub SOLE. | Part. per Mic. | ' '' |
|---|---|---|---|---|
| ♃ Dec. 7 | | *Ad o^h 53' p. m. Angulus parallacticus calculo investigatur 83° 02'. Maculæ tùnc à limbo distantiam collatis observationibus statuo 2' 35'', & differentiam altitudinum limbi Solis verè austrini & Maculæ observatam 15' 17''; undè colligitur ejus locus.* | | |
| | | In Consequentia Centri Solis ———— 13' 30'' | | |
| | | Cum Latitudine Austrina ———— 02' 44'' | | |
| | | *Quod si è datâ, ad 1^h 9' ½, differentiâ declinationum limbi Solis verè austrini & Maculæ 13' 18'', cum eadem ejusdem à limbo Solis distantia proxima 2' 35'', inveniendus esset Maculæ sub Sole locus; è Solis loco ad id tempus cognito juxta Tabulas, in Sagittarii 26° 32', eruetur angulus Circuli Longitudinis cum Parallelo Declinationis 88° 29'; indèque dabitur Maculæ locus.* | | |
| | | In Consequentia Centri Solis ———— 13' 30'' | | |
| | | Cum Latitudine Austrina ———— 02' 43'' | | |
| | | *Benè satis cum loco ab observatis altitudinum differentiis deducto consentiens.* | | |
| | | *Adhibita porrò declinationum differentia majore scrupulis 15'', proùt observata fuit 1^h 15', idem prodibit Maculæ locus, sed Latitudo minor tot scrupulis secundis.* | | |
| | | *A septimo Decembris ad decimam quintam sequentem, frigus erat intensissimum, multum Nivis, & Cœlum continuò vel nubibus vel densa nebula subductum, ut nunquàm intereà Solem videre potuerim. Circa meridiem nubes dehiscere cæperunt, & Sol emicuit, in cujus disco adhuc videbatur Macula, haùd procùl à limbo antecedente, mole tamen imminuta; Diameter enim ejus nunc erat 15'' circitèr, certè non major 22''. Observata deinde* | | |
| ♃ 14 vel ♀ 15 mane | 22 58 40 | Maculæ à limbo Solis proximo distantia ———— | 803 | = 04 00 |
| | 23 27 00 | Differentia Declinationum limbi verè Austrini & Maculæ ———— | 3156 | = 15 45 |
| | 33 24 | ———— accurate rep. | 3215 | = 16 02 |
| | 43 00 | Macula à limbo proximo ———— | 823 | = 04 06 |
| | 51 12 | ———— rep. | 832 | = 04 09 |
| | 56 00 | Differentia Declinationum repetit. ———— | 3201 | = 15 58 |
| | | *Solis locus juxta Tabulas est in Capricorni 4° 39', Angulus ergo Paralleli & Circuli Longitudinis 87° 59': quare 11^h 51' manè, Macula* | | |
| | | In Antecedentia Centri Solis ———— 12' 22'' | | |
| | | Cum Latitudine Borea ———— 00' 04'' | | |
| | | *Si satis habuisset consistentiæ, in Solis discum visibilem redire debuit Primo vel Secundo sequentis Januarii. Eo autem tunc diligenter inspecto, nullum Maculæ vestigium relictum erat.* | | |

| Anno Christi 1683. Mense Die Styl. Vet. | Tempora juxta Horologium Oscillatorium. h ′ ″ | Tempora ab Observationibus Correcta. h ′ ″ | OBSERVATIONES CIRCUMJOVIALIUM. |
|---|---|---|---|
| ☿ Dec. 19 | 15 52 08 | 15 31 58 | Tertius apparuit diminutus. |
| | 55 10 | 35 00 | Evanuit. |
| | | 18 52 00 | Observante *Islingtonii* D. *Halleio*, emerserat, sed in Penumbrâ adhuc versari conjiciebat, non enim debitam mag. acquisiverat. |
| ♃ 20 | 14 31 22 | 14 09 20 | Secundus per tenues vapores perexiguus. |
| | 31 50 | 09 50 | Evanuerat. |
| ♃ 27 | 17 20 00 | 16 39 45 | Secundus diminutus videbatur. |
| | 21 06 | 40 50 | Evanuit. Accurata Observatio, Aere perquam sereno & tranquillo. |
| ☉ 30 | 19 22 00 | 18 34½ | Primus non apparuit, nunc forsan evanescens; Observatio dub. |
| Anno Christi MDCLXXXIV. | | | |
| ♃ Jan. 3 | 20 14 40 | 19 13 00 | Evanuit Secundus. |
| ♂ 8 | 14 50 22 | 14 54 00 | Primus evanuit, vel forsan 10″ citius. |
| ♃ 31 | 15 11 38 | 14 56 43 | Primus apparuit attenuatus. |
| | 13 04 | 58 09 | Evanuit. |
| | 25 34 | 15 10 40 | Tertius evanuit. |
| ♄ Feb. 2 | 9 42 00 | 9 26 00 | Primus diminutus apparuit. |
| | 43 10 | 27 10 | Primus disparuit. |
| ☿ Mar. 12 | 10 33 30 | 10 18 27 | Dubitavi annon Primum prætenuem viderim ab Umbrâ emergentem. |
| | 34 18 | 19 15 | Certè vidi minus quartâ semidiametri parte à Jovis Limbo distantem. |
| | 35 12 | 20 09 | Clarè explenduit. |
| ♀ 28 | 8 55 42 | 8 41 47 | Primus cœpit emergere prætenuis. |
| | 56 30 | 42 35 | Clarè explenduit. |
| ☉ 30 | 9 22 08 | 9 08 28 | Putavi me videre Quartum emergere incipientem. |
| | 23 04 | 09 24 | Certè vidi sed prætenuem. |
| | 23 20 | 09 40 | Clarè sed in Penumbra. |
| ♄ Apr. 12 | 10 36 00 | 10 24 40 | Uterque Satelles Secundus & Tertius prodierant ex Umbrâ. |
| ☽ Maii 4 | 13 02 32 | 12 52 30 | Putavi me videre Primum emergere incipientem. |
| | 03 30 | 53 30 | Vidi, sed prætenuem. |
| | 04 30 | 54 30 | Certè vidi, vidit & minori Tubo pedum 8 *T. Faber*, sed exiguum, propter aerem vaporosum & subnubilum: huic quamobrem observationi haud multum fido. |
| ☉ 25 | 10 18 52 | 10 09 57 | Tertius cœpit emergere, vel forsan 10″ citius. |
| | 20 00 | 11 05 | Haud adeo clarè emicuit ut Secundus. |
| | 22 00 | 13 05 | Clarè ut Secundus. |
| ☽ Jun. 15 | 9 32 30 | 9 23 00 | Secundus emerserat, sed vix omnino liber erat à Penumbra. |
| Anno Christi MDCLXXXV. | | | |
| ☉ Feb. 15 | 11 50 00 | 11 50 52 | Secundus videbatur attenuari. |
| | 51 10 | 52 02 | Prætenuis. |
| | 51 30 | 52 22 | Evanuit. |
| | 51 50 | 52 42 | Certè aberat. |

| Anno Christi 1685. Menſe Die Styl. Vet. | Tempora per Horologium Oſcillatorium. h ′ ″ | Tempora ab Obſervationibus Correcta. h ′ ″ | OBSERVATIONES CIRCUMJOVIALIUM. |
|---|---|---|---|
| ♄ Feb. 28 | 17 42 00<br>42 50<br>43 30<br>44 00 | 17 45 37<br>46 27<br>47 07<br>47 37 | Tertius diminutus apparuit.<br>Dubius eram an apparuerit.<br>Evanuerat.<br>Certè non viſus.<br>*Pone Occultationem* 17ʰ 43′ 20″ *per Horologium.* |
| ♃ Mar. 12 | 8 54 30<br>55 10 | 9 00 50<br>01 30 | Secundus apparuit diminutus.<br>Evanuit limbo valdè vicinus. |
| ☽ Apr. 13 | 11 00 06<br>02 00 | 11 11 30<br>13 24 | Secundus apparuit, ſed in Penumbra, nondum penitus ab umbrâ emerſus.<br>Clarè explenduit. |
| ♀ Maii 8 | 8 09 00<br>09 50<br>10 10<br>11 00 | 8 13 40<br>14 30<br>14 50<br>15 40 | Duo duntaxat viſi Satellites.<br>Secundus emergere videbatur.<br>Sat clarè viſus.<br>Explenduit. |
| Anno Christi MDCLXXXVI. | | | |
| ☿ Jun. 2 | 10 18 00 | 10 26 10 | Tertius emerſerat, ſed tenuis apparuit, adhuc in Penumbrâ. |
| ♃ 10 | 8 51 08<br>52 06 | 8 57 12<br>58 10 | Secundus incipit emergere, forſan 10″ citiùs.<br>Clarè explenduit, ſed in Penumbra. |
| ☉ 13 | 9 13 36<br>13 56 | 9 17 56<br>18 16 | Primus cœpit emergere Tubo ped. 16.<br>Clarè explenduit, etiam viſus Tubo ped. 8. |
| ♂ Julii 6 | 9 41 56<br>42 30 | | Primus emergebat, Obſervante miniſtro. *Calc.* 9ʰ 30′ ½.<br>Clarè explenduit, Tubo ped. 16. |
| Anno Christi MDCLXXXVII. | | | |
| ☽ Jan. 17 | 18 10 56<br>14 00 | 17 52 56<br>56 00 | Tertius cœpit emergere. *Calc.* 18ʰ 14′.<br>Clarè explenduit. |
| ♂ 18 | 18 28 38<br>29 24<br>29 50 | 18 09 38<br>10 24<br>10 50 | Primus cœpit evaneſcere: Evanuit Tubo ped. 16. Obſ. *J. S.*<br>Dubito an apparuerit.<br>Evanuit, Tubo ped. 27. *Calc.* 18ʰ 05′ ¼. |
| [illegible] Feb. 10 | 18 35 30<br>36 22<br>36 30 | 18 18 10<br>19 02<br>19 10 | Primus cœpit attenuari.<br>Vix conſpectus.<br>Certè evanuit, Tubo ped. 27. *Calc.* 18ʰ 12′ ¼. |
| ♂ Mar. 1 | 15 30 00<br>18 03 00<br>03 14<br>04 00<br>05 00 | 15 09 10<br>17 42 10<br>42 24<br>43 10<br>44 10 | Tertius diſparuit, paulo ante viſus.<br>Tertius incipit emergere.<br>Clarius conſpectus.<br>Adhuc in Penumbrâ.<br>Clarus ut Primus, Tubo ped. 27.<br>*Linea à Quarto ad Tertium radebat Jovis Limbum.*<br>*Accurata hæc & diligens Obſervatio, Cœlo ſereno.* |
| ♄ Jun. 18 | 12 59 22<br>13 00 00 | 12 57 02<br>57 40 | Secundus Satelles cœpit emergere, diſtinctè conſpectus.<br>Explenduit clarè ut Quartus. |
| ☽ Julii 25 | 10 58 58<br>59 40<br>11 01 10 | 10 42 18<br>43 00<br>44 30 | Primus cœpit emergere<br>Adhuc in Penumbrâ.<br>Clarè explenduit.<br>*Obſervante miniſtro,* J. Staff. *Tubo ped.* 27. *me* Burſtovii *abſente* |



I. du Guernier deli. & Sculp.

# HISTORIÆ COELESTIS
## LIBRI PRIMI,
## PARS SEPTIMA;
# OBSERVATIONES
## Altitudinum & Distantiarum
## SOLIS à VERTICE
## QUADRANTIBUS,
NECNON ET

VENERIS à SOLE DISTANTIAS SEXTANTE,

Refractionum Cœlestium Mensuras Investigandi gratiâ,

# GRENOVICI
## In Observatorio Regio,
## CAPTAS,
COMPREHENDENS.

| ANNO CHRISTI 1678. Styl. Vet. | Tempora per Horologium Oscillatorium h. ′ ″ | Tempora inde ab Observationibus correcta. h ′ ″ | OBSERVATIONES REFRACTIONUM. | Distantiæ à Vertice Observatæ. ° ′ | Distantiæ à Vertice Supputatæ. ° ′ | Refractiones inde Collectæ. ′ |
|---|---|---|---|---|---|---|
| ♂ Jun. 11 vel | 15 46 40 | 15 46 25 | Distantia limbi Solis inferioris à Vertice ——— | 89 50 | 90 25 ½ | 34 ½ |
| ☿ 12 mane | 48 24 | 48 09 | ——— | 40 | 90 12 ½ | 32 ½ |
| | 50 13 | 49 58 | ——— | 30 | 89 59 ½ | 29 ½ |
| | 51 44 | 51 29 | ——— | 20 | 89 48 ½ | 28 ½ |
| | 53 24 | 53 09 | ——— | 10 | 89 36 | 26 |
| | 55 07 | 54 52 | ——— | 89 00 | 89 23 ½ | 23 ½ |
| | 56 32 | 56 17 | ——— | 88 50 | 89 13 [illegible] | 23 |
| | 58 16 | 18 01 | ——— | 40 | 89 00 ⅓ | 20 ½ |

| ANNO CHRISTI 1678. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ab Observationibus Correcta. h ′ ″ | OBSERVATIONES REFRACTIONUM. | Distantiae à Vertice Observatae. ° ′ | Distantiae à Vertice Supputatae. ° ′ | Refractiones inde Collectae. ′ |
|---|---|---|---|---|---|---|
| ♂ Jun. 11 vel ☿ 12 *mane* | 15 59 42 | 15 59 27 | Distantia limbi Solis inferioris à Vertice | 88 30 | 88 49 ⅔ | 19 ⅔ |
| | 16 02 36 | 16 02 21 | | 10 | 88 28 | 18 |
| | 03 57 | 03 42 | | 88 00 | 88 18 | 18 |
| | 05 28 | 05 13 | | 87 50 | | |
| | 06 48 | 06 33 | | 40 | | |
| | 08 09 | 07 54 | | 30 | | |
| | 09 42 | 09 27 | | 20 | | |
| | 11 00 | 10 45 | | 10 | | |
| | 12 22 | 12 07 | | 87 00 | 87 14 ⅓ | 14 ⅓ |
| | 13 43 | 13 28 | | 86 50 | | |
| | 15 04 | 14 49 | | 40 | | |
| | 16 23 | 16 08 | | 30 | | |
| | 17 48 | 17 33 | | 20 | | |
| | 19 04 | 18 49 | | 10 | | |
| | 20 30 | 20 15 | | 86 00 | 86 11 ½ | 11 ½ |
| | 21 52 | 21 37 | | 85 50 | | |
| | 23 10 | 22 55 | | 40 | | |
| | 24 28 | 24 13 | | 30 | | |
| | 25 48 | 25 33 | | 20 | | |
| | 27 06 | 26 51 | | 10 | | |
| | 28 24 | 28 09 | | 85 00 | 85 09 ½ | 09 ½ |
| | 29 42 | 29 27 | | 84 50 | | |
| | 31 00 | 30 45 | | 40 | | |
| | 32 17 | 32 02 | | 30 | | |
| | 33 34 | 33 19 | | 20 | | |
| | 34 49 | 34 34 | | 10 | | |
| | 36 06 | 35 51 | | 84 00 | 84 08 | 08 |
| | 37 20 | 37 05 | | 83 50 | | |
| | 38 35 | 38 20 | | 40 | | |
| | 39 54 | 39 39 | | 30 | | |
| | 41 08 | 40 53 | | 20 | | |
| | 43 40 | 43 25 | | 83 00 | 83 06 ⅔ | 06 ⅔ |
| | 46 08 | 45 53 | | 82 40 | | |
| | 47 22 | 47 07 | | 30 | | |
| | 48 40 | 48 25 | | 20 | | |
| | 49 52 | 49 37 | | 10 | | |
| | 51 04 | 50 49 | | 82 00 | 82 06 ¼ | 06 ¼ |
| | 52 16 | 52 01 | | 81 50 | | |
| | 53 28 | 53 13 | | 40 | | |
| | 54 44 | 54 29 | | 30 | | |
| | 55 57 | 55 42 | | 20 | | |
| | 57 10 | 56 55 | | 10 | | |
| | 58 18 | 58 03 | | 81 00 | 81 05 ⅚ | 05 ⅚ |
| | 17 00 44 | 17 00 29 | | 80 40 | | |
| | 01 56 | 01 41 | | 30 | | |
| | 03 10 | 02 55 | | 20 | | |

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium h ' '' | Tempora ab Observationibus Correcta h ' '' | OBSERVATIONES REFRACTIONUM. | Distantia à Vertice Observata ° ' | Distantia à Vertice Supputata ° ' | Refractiones inde Collectæ ' |
|---|---|---|---|---|---|---|
| ♂ Jun. 11 *vel* | 17 04 20 | 17 04 05 | Distantia limbi Solis inferioris à Vertice | 80 10 | | |
| ☿ 12 | 05 32 | 05 17 | | 00 | 80 05 | 05 |
| *mane* | 09 00 | 08 45 | | 79 30 | | |
| | 12 40 | 12 25 | | 79 00 | 79 04 ¼ | 04 ¼ |
| | 16 08 | 15 53 | | 78 30 | | |
| | 19 22 | 19 07 | | 78 00 | | |
| | 18 59 22 | 18 59 07 | | 63 00 | | |
| | 19 01 32 | 19 01 17 | | 62 40 | | |
| | 03 40 | 03 25 | | 20 | | |
| | 05 46 | 05 31 | | 00 | | |
| | 07 57 | 07 42 | | 61 40 | | |
| | 10 08 | 09 53 | | 20 | | |
| | 20 18 02 | 20 17 47 | | 50 50 | | |
| | 20 12 | 19 57 | | 30 | | |
| | 21 14 | 20 59 | | 20 | | |
| | 22 22 | 22 07 | | 10 | | |
| | 23 22 | 23 07 | | 00 | | |
| ☿ 12 | 00 00 | 00 00 | Limb. Sol inferioris à Vertice | | | |
| | 4 01 02 | 4 00 47 | | 53 40 | | |
| | 03 14 | 02 59 | | 54 00 | | |
| | 05 24 | 05 09 | | 54 20 | | |
| | 07 28 | 07 13 | | 54 40 | | |
| | 09 36 | 09 21 | | 55 00 | | |
| | 11 42 | 11 27 | | 55 20 | | |
| | 54 30 | 54 15 | | 62 00 | | |
| | 56 46 | 56 31 | | 62 20 | | |
| | 58 49 | 58 34 | | 62 40 | | |
| | 5 10 00 | 5 00 45 | | 63 00 | | |
| | 03 09 | 02 54 | | 63 20 | | |
| | 6 40 42 | 6 40 27 | | 78 00 | 78 00 ½ | 02 ½ |
| | 44 08 | 43 53 | | 78 30 | | |
| | 47 46 | 47 31 | | 79 00 | 79 03 ½ | 03 ½ |
| | ::51 21 | ::51 06 | | 79 30 | | |
| | 54 46 | 54 31 | | 80 00 | 80 03 ½ | 03 ½ |
| | 59 45 | 59 30 | | 80 40 | | |
| | 7 02 02 | 7 01 47 | | 81 00 | 81 04 ⅓ | 04 ⅓ |
| | 09 20 | 09 05 | | 82 00 | 82 05 ⅓ | 05 ⅓ |
| | 12 56 | 12 41 | | 82 30 | | |
| | 16 40 | 16 25 | | 83 00 | 83 05 ⅓ | 05 ⅓ |
| | 7 20 26 | 7 20 11 | | 83 30 | | |
| | 24 07 | 23 52 | | 84 00 | 84 06 | 06 |
| | 28 08 | 27 53 | | 84 30 | | |
| | 32 04 | 31 49 | | 85 00 | 85 09 | 09 |
| | 35 51 | 35 36 | | 85 30 | | |
| | 39 48 | 39 33 | | 86 00 | 86 10 ⅓ | 10 ⅓ |

| ANNO CHRISTI 1678. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora inde ab Observationibus correcta. h ′ ″ | OBSERVATIONES REFRACTIONUM. | Distantiæ à Vertice Observata ° ′ | Distantia à Vertice Supputata. ° ′ | Refractiones inde Collectæ. ′ |
|---|---|---|---|---|---|---|
| ♄ Jun. 12 | 7 43 54 | 7 43 39 | Limb. Solis inferior. à Vertice | 86 30 | | |
| | 47 57 | 47 42 | ——— | 87 00 | 87 14 1/3 | 14 1/3 |
| | 8 10 58 | 8 10 43 | Limb. Solis superior. à Vertice | 89 10 | 89 32 2/3 | 22 2/3 |
| | 14 06 | 13 51 | ——— | 89 30 | 89 55 1/12 | 25 1/12 |
| | 15 36 | 15 21 | ——— | 89 40 | 90 06 | 26 |
| | 16 40 | 16 25 | Occasus apparens limbi Solis superioris. | | | |
| | | | *Quatuor has ultimas nubes turbârunt.* | | | |
| ☉ 16 vel ☽ 17 mane | 15 44 38 | 15 44 27 | Distantia limbi Solis superioris à Vertice | 89 40 | 90 12 1/6 | 32 1/6 |
| | 47 16 | 47 05 | ——— inferioris | 89 50 | 90 25 1/6 | 35 1/6 |
| | 49 08 | 48 57 | ——— | 89 40 | 90 12 1/3 | 32 1/3 |
| | 51 02 | 50 51 | ——— | 89 30 | 89 58 | 28 |
| | 52 36 | 52 25 | ——— | 89 20 | 89 47 1/4 | 27 1/4 |
| | 54 16 | 54 05 | ——— | 89 10 | 89 35 | 25 |
| | 56 58 | ::55 47 | ——— | 89 00 | 89 | |
| | 57 24 | 57 13 | ——— | 88 50 | | |
| | 59 56 | 59 45 | ——— | 88 39 | | |
| | 16 03 27 | 16 03 16 | ——— | 88 10 | | |
| | 04 44 | 04 33 | ——— | ::88 00 | 88 17 ½ | 17 ½ |
| | 09 02 | 08 51 | ——— | ::87 30 | | |
| | 13 14 | 13 03 | ——— | ::87 00 | 87 12 1/3 | 12 1/3 |
| | 17 18 | 17 06 | ——— | 86 30 | | |
| | 21 28 | 21 17 | ——— | 86 00 | 86 09 1/6 | 09 1/6 |
| | 25 18 | 25 07 | ——— | 85 30 | | |
| | 29 14 | 29 03 | ——— | 85 00 | 85 07 1/6 | 07 1/6 |
| | 33 00 | 32 49 | ——— | 84 30 | | |
| | 36 54 | 36 43 | ——— | 84 00 | 84 06 ½ | 06 ½ |
| | 40 42 | 40 31 | ——— | 83 30 | | |
| | 44 24 | 44 13 | ——— | 83 00 | 83 05 1/3 | 05 1/3 |
| | 48 08 | 47 57 | Nubes Solem vexare cœperunt ——— | 82 30½ | | |
| | 51 40 | 51 29 | ——— | 82 00 | | |
| | 55 20 | 55 09 | ——— propter nubes : : | 81 30 | | |
| | 17 01 20 | 17 01 09 | ——— | 80 40 | 80 45 1/4 | 05 1/4 |
| | 19 55 46 | 19 55 35 | ——— | 54 20 | | |
| | 57 56 | 57 45 | ——— | 54 00 | | |
| | 20 01 10 | 20 00 59 | ——— | 53 30 | | |
| | 03 24 | 03 13 | ——— | 53 10 | | |
| | 05 28 | 05 17 | ——— | 52 50 | | |
| ♃ 20 | 7 02 58 | 7 02 37 | Limbus Solis inferior à Vertice ——— | 81 20 | | |
| | 05 21 | 05 00 | ——— | 81 40 | | |
| | 07 46 | 07 25 | ——— | 82 00 | 82 06 1/3 | 06 1/3 |
| | 10 15 | 09 54 | ——— | 82 20 | | |
| | 12 38 | 12 17 | ——— | 82 40 | | |

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora inde ab Observationibus correcta. h ′ ″ | OBSERVATIONES. Refractionum. | Distantiæ à Vertice Observatæ. ° ′ | Distantiæ à Vertice Supputatæ. ° ′ | Refractiones inde Collectæ. ′ |
|---|---|---|---|---|---|---|
| ♃ Jun. 20 | 7 15 10 | 7 14 49 | Limb. Solis inferior. à Vertice | 83 00 | 83 07 1/4 | 07 1/4 |
| | 18 54 | 18 33 | ——— | 83 30 | | |
| | 22 41 | 22 20 | ——— | 84 00 | 84 08 1/2 | 08 1/2 |
| | 26 29 | 26 08 | ——— | 84 30 | | |
| | 30 17 | 29 56 | ——— | 85 00 | 85 09 1/2 | 09 1/2 |
| | 34 08 | 33 48 | ——— | 85 30 | | |
| | 38 07 | 37 46 | ——— | 86 00 | 86 11 1/5 | 11 1/5 |
| | 42 06 | 41 45 | Limb. Solis superior. à Vertice | 86 30 | | |
| | 43 38 | 43 17 | ——— inferior. | 86 40 | | |
| | 46 13 | 45 52 | ——— | 87 00 | 87 14 1/3 | 14 1/3 |
| | 58 56 | 58 35 | ——— | 88 30 | 88 50 2/3 | 20 2/3 |
| ♀ 21 mane | 15 48 33 | 15 48 11 | Limb. Solis superior. à Vertice | 89 30 | 89 57 1/3 | 27 1/3 |
| | 56 15 | 55 53 | ——— inferior. | 89 10 | 49 33 | 23 |
| | 57 56 | 57 34 | ——— | 89 00 | 89 20 1/3 | 20 1/3 |
| | 59 15 | 58 53 | ——— | 88 50 | 89 10 1/6 | 20 1/6 |
| | 16 03 43 | 16 03 21 | ——— | 88 20 | 88 37 1/2 | |
| | 05 19 | 04 47 | ——— | 88 10 | | |
| | 06 31 | 06 09 | ——— | 88 00 | 88 16 1/2 | 16 1/2 |
| ☿ 26 | 4 01 40 | 4 01 12 | Limb. Solis inferior. à Vertice | 54 20 | | |
| | 03 52 | 03 24 | ——— | 54 40 | | |
| | 05 57 | 05 29 | ——— | 55 00 | | |
| | 08 09 | 07 41 | ——— | 55 20 | | |
| | 10 18 | 09 50 | ——— | 55 40 | | |
| | 14 36 | 14 08 | ——— | 56 20 | | |
| | 6 16 06 | 6 15 38 | ——— | 75 00 | 75 03 1/2 | 03 1/2 |
| | 19 28 | 19 00 | ——— | 75 30 | | |
| | 22 52 | 22 24 | ——— | 76 00 | 76 03 2/3 | 03 2/3 |
| | 29 40 | 29 12 | ——— :: | 77 01 | 77 05 1/6 | 04 1/6 |
| | 36 30 | 36 02 | ——— | 78 00 | 78 03 1/5 | 03 1/5 |
| | 40 06 | 39 38 | ——— | 78 30 | | |
| | 43 30 | 43 02 | ——— | 79 00 | 79 04 | 04 |
| | 47 02 | 46 34 | ——— | 79 30 | | |
| | 54 04 | 53 36 | ——— | 80 30 | | |
| | 57 38 | 57 10 | ——— | 81 00 | 81 05 | 05 |
| | 7 01 12 | 7 00 44 | ——— | 81 30 | | |
| | 04 48 | 04 20 | ——— | 82 00 | 82 05 1/4 | 05 1/4 |
| | 08 30 | 08 02 | ——— | 82 30 | | |
| | 13 22 | 12 54 | ——— | 83 10 | 83 16 1/5 | 06 1/5 |
| | 15 52 | 15 24 | ——— | 83 30 | | |
| | 19 30 | 19 02 | ——— | 84 00 | 84 06 1/6 | 06 1/6 |
| | 23 24 | 22 56 | ——— | 84 30 | | |
| | 27 08 | 26 40 | ——— | 85 00 | 85 08 2/3 | 18 2/3 |
| | 31 02 | 30 34 | ——— | 85 30 | | |
| | ::34 54 | 34 26 | ——— | 86 00 | 86 10 2/3 | 10 2/3 |
| | ::39 00 | 38 32 | ——— | 86 30 | | |
| | 43 00 | 42 30 | ——— | 87 00 | 87 14 | 14 |

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora inde ab Observationibus correcta. h ′ ″ | OBSERVATIONES. REFRACTIONUM. | Distantiæ à Vertice Observatæ. ° ′ | Distantiæ à Vertice Supputatæ. ° ′ | Refractiones inde Collectæ. ′ |
|---|---|---|---|---|---|---|
| ☿ Jun. 26 | 7 47 02 | 7 46 32 | Limbi Solis inferior. à Vertice | 87 30 | | |
| | 51 04 | 50 34 | ——— | 88 00 | 88 16 ¼ | 16 ¼ |
| | 53 48 | 53 18 | ——— | 88 20 | | |
| | 56 48 | 56 18 | ——— | 88 40 | | |
| | 59 50 | 59 20 | ——— | 89 00 | 89 22 1/6 | 22 1/6 |
| | 8 01 26 | 8 00 56 | ——— | 89 10 | 89 34 ½ | 24 ½ |
| | 02 58 | 02 28 | ——— | 89 20 | 89 45 1/5 | 25 1/5 |
| | 04 28 | 03 58 | ——— | 89 30 | 89 57 | 27 |
| | 06 18 | 05 48 | ——— | 89 40 | 90 10 ½ | 30 ½ |
| | 10 36 | 10 06 | Limbi Solis superior. à Vertice | 89 40 | 90 10 ⅓ | 30 ⅓ |
| | 11 28 | 10 58 | Solis Occasus apparens ——— | 89 46 | | |
| ♃ 27 | 4 11 58 | 4 11 28 | Limbi Solis inferior. à Vertice | 56 00 | | |
| | 15 08 | 14 38 | ——— | 56 30 | | |
| | 18 24 | 17 54 | ——— * | 57 00 | | |
| | 21 30 | 21 00 | ——— * | 57 30 | | |
| | 24 50 | 24 20 | ——— | 58 00 | | |
| | 7 11 24 | 7 10 54 | ——— | 83 00 | | |
| | 18 56 | 18 26 | ——— | 84 00 | | |
| | 22 38 | 22 08 | ——— | 84 30 | | |
| | 26 34 | 26 04 | ——— | 85 00 | | |
| | 30 13 | 29 43 | ——— :: | 85 30 | | |
| | 38 08 | 37 38 | ——— | 86 30 | | |
| | | | *Tunc nubes excepêre Solem, sub quibus latuit usque ad Occasum suum.* | | | |
| ☽ Julii 8 *vel* ♂ 9 *mane.* | 19 56 56 | 19 56 58 | Limbi Solis inferior. à Vertice | 56 00 | | |
| | 59 06 | 59 08 | ——— | 55 40 | | |
| | 20 01 16 | 20 01 18 | ——— | 55 20 | | |
| | 03 30 | 03 32 | ——— | 55 00 | | |
| | 05 38 | 05 40 | ——— | 54 40 | | |
| ♂ 9 | 7 10 28 | 7 10 30 | Limbi Solis inferior. à Vertice | 84 20 | | |
| | 12 48 | 12 50 | ——— | 84 40 | | |
| | 15 28 | 15 30 | ——— | 85 00 | | |
| | 19 08 | 19 10 | ——— | 85 30 | | |
| | 22 55 | 22 57 | ——— | 86 00 | | |
| | 26 48 | 26 50 | ——— | 86 30 | | |
| | 30 34 | 30 36 | ——— | 87 00 | | |
| | 33 10 | 33 12 | ——— | 87 20 | | |
| | 35 56 | 35 58 | ——— | 87 40 | | |
| | 38 34 | 38 36 | ——— | 88 00 | | |
| | 42 34 | 42 36 | ——— | 88 30 | | |
| | 43 50 | 43 52 | ——— | 88 40 | | |
| | 46 50 | 46 52 | ——— | 89 00 | | |
| | 48 19 | 48 21 | ——— | 89 10 | | |
| | 49 46 | 49 48 | ——— | 89 20 | | |
| | 51 16 | 51 18 | ——— | 89 30 | | |

| Anno Christi 1678. Styl. Vet. | Tempora per Horologium Oscillatorium h ' '' | Tempora inde ab Observationibus correcta. h ' '' | OBSERVATIONES. REFRACTIONUM. | Distantiae à Vertice Observatae. ° ' | Distantiae à Vertice Supputatae. ° ' | Refractiones inde Collectae. ' |
|---|---|---|---|---|---|---|
| ♂ Julii 9 | 7 52 44 | 7 52 46 | Limbi Solis inferior. à Vertice | 89 40 | | |
| | 54 18 | 54 20 | | 89 49 | | |
| vel | 58 06 | 58 08 | Occasus appar. limbi Solis superioris ——— | 89 48 | | |
| ☿ 10 mane | 16 04 16 | 16 04 18 | Solis limbi superior. à Vertice | 89 30 | :: | |
| | 10 24 | 10 26 | ——— | 89 20 | | |
| | 11 53 | 11 55 | ——— | 89 10 | | |
| | 13 27 | 13 29 | ——— | 89 00 | :: | |
| | 16 21 | 16 23 | ——— | 88 40 | :: | |
| | 19 04 | 19 06 | ——— | 88 20 | | |
| | 29 48 | 29 50 | ——— | 87 00 | | |
| | 33 30 | 33 32 | ——— | 86 30 | | |
| | 34 52 | 34 54 | ——— | 86 20 | | |
| | 37 26 | 37 28 | ——— | 86 00 | | |
| | 41 16 | 41 18 | ——— | 85 30 | | |
| | 45 02 | 45 04 | ——— | 85 00 | | |
| | 20 04 28 | 20 04 28 | ——— | 55 00 | | |
| | 06 32 | 06 32 | ——— | 54 40 | | |
| | 08 42 | 08 42 | ——— | 54 20 | | |
| | 10 56 | 10 56 | ——— | 54 00 | | |
| | 13 05 | 13 05 | ——— | 53 40 | | |
| ☿ 10 | 0 00 00 | 0 00 00 | Solis limbi inferior. à Vertice | 31 06 | | |
| | 4 16 54 | | ——— | 58 20 | | |
| | 19 10 | | ——— | 58 40 | | |
| | 22 14 | | ——— | 59 10 | | |
| | 24 24 | | ——— | 59 30 | | |
| ☉ 14 | 16 20 20 | 16 14 24 | Limbi Solis superior. à Vertice | 89 10 | | |
| vel | 22 50 | 16 54 | ——— inferioris | 89 20 | | |
| ☽ 15 | 24 22 | 18 26 | ——— | 89 10 | | |
| mane | 25 54 | 19 58 | ——— | 89 00 | | |
| | 29 58 | 24 02 | ——— | 88 30 | | |
| | 33 54 | 27 58 | ——— | 88 00 | | |
| | 38 01 | 32 05 | ——— | 87 30 | | |
| | 41 46 | 35 50 | ——— | 87 00 | | |
| | 45 31 | 39 35 | ——— | 86 30 | | |
| | 49 24 | 43 28 | ——— | 86 00 | | |
| | 56 44 | 50 48 | ——— | 85 00 | | |
| | 17 04 00 | 58 04 | ——— | 84 00 | :: | |
| | 07 34 | 17 01 38 | ——— | 83 30 | | |
| | 11 06 | 05 10 | ——— | 83 00 | | |
| | 14 42 | 08 46 | ——— | 82 30 | | |
| | 18 10 | 12 14 | ——— | 82 00 | | |
| | 21 34 | 15 38 | ——— | 81 30 | | |
| | 24 56 | 19 00 | ——— | 81 00 | | |
| | 28 27 | 22 31 | ——— | 80 30 | | |
| | 31 58 | 26 02 | ——— | 80 00 | | |

| Anno Christi 1678. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h ′ ″ | *Tempora inde ab Observationibus correcta.* h ′ ″ | OBSERVATIONES REFRACTIONUM. | *Distantiæ à Vertice Observatæ.* ° ′ | *Distantiæ à Vertice Supputatæ.* ° ′ | *Refractiones inde Collectæ.* ′ |
|---|---|---|---|---|---|---|
| ☉ Julii 14 | 20 18 38 | 20 12 42 | Limbi Solis superior. à Vertice | 54 30 | | |
| *vel* | 20 58 | 15 02 | — | 54 10 | | |
| ☽ 15 | 23 02 | 17 06 | — | 53 50 | | |
| *mane* | 25 24 | 19 28 | — | 53 30 | | |
| | 27 34 | 21 38 | — | 53 10 | | |
| | 29 44 | 23 48 | — | 52 50 | | |
| ☽ 15 | 4 02 44 | 3 56 48 | — | 56 00 | | |
| | 04 46 | 58 50 | — | 56 20 | | |
| | 07 03 | 4 01 07 | — | 56 40 | | |
| | 09 08 | 03 12 | — | 57 00 | | |
| | 11 26 | 05 31 | — | 57 20 | | |
| | 13 32 | 07 36 | — | 57 40 | | |
| | 5 33 02 | 5 27 06 | — | 70 00 | | |
| | 39 26 | 33 30 | — | 71 00 | | |
| | 46 04 | 40 08 | — | 72 00 | | |
| | 52 30 | 46 34 | — | 73 00 | | |
| | 6 00 10 | 54 14 | — | 74 10 | | |
| | 05 38 | 59 42 | — | 75 00 | | |
| | 12 16 | 6 06 20 | — | 76 00 | | |
| | 18 48 | 12 52 | — | 77 00 | | |
| | 25 27 | 19 32 | — | 78 00 | | |
| | 26 46 | 20 50 | — :: | 78 10 | | |
| | 30 16 | 24 20 | — | 78 40 | | |
| | 32 22 | 26 26 | — | 79 00 | | |
| | 35 44 | 29 48 | — :: | 79 30 | | |
| | 42 39 | 36 43 | — | 80 30 | | |
| | 46 01 | 40 05 | — | 81 00 | | |
| | 49 23 | 43 27 | — | 81 30 | | |
| | 52 25 | 46 29 | — | 82 00 | | |
| | 56 26 | 50 30 | — | 82 30 | | |
| | 7 03 28 | 57 32 | — | 83 30 | | |
| | 07 06 | 7 01 10 | — | 84 00 | | |
| | 10 48 | 04 52 | — | 84 30 | | |
| | 14 22 | 08 26 | — | 85 00 | | |
| | 17 58 | 12 02 | — | 85 30 | | |
| | 21 38 | 15 42 | — | 86 00 | | |
| | 25 30 | 19 34 | — | 86 30 | | |
| | 29 14 | 23 18 | — | 87 00 | | |
| | 38 14 | 32 18 | — | 88 10 | | |
| | 40 58 | 35 02 | — | 88 30 | | |
| | 44 56 | 39 00 | — | 89 00 | | |
| | 46 26 | 40 30 | — | 89 10 | | |
| | 47 50 | 41 54 | — *Nubes tùnc excepere Solem. Pomeridianas has habuit* Faber *cum socio, præter sex ultimas quibus ipse interfui.* | 89 20 | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium h ' " | Tempora ab Observationibus Correcta h ' " | OBSERVATIONES REFRACTIONUM. | Distantiæ à Vertice Observatæ ° ' | Distantiæ à Vertice Supputatæ ° ' | Refractiones inde Collectæ ' |
| --- | --- | --- | --- | --- | --- | --- |
| | | | *Lunæ plenæ, & mox Eclipsin passuræ, Refractiones investigandi gratiâ sequentes habui observationes, adjuvante* D. Halleio. | | | |
| ♄ Oct. 19 | 4 43 28 | | Limb. Lunæ super. à Vertice | 88 50 | | |
| | 47 08 | | ——— inferioris ——— | 88 50 | | |
| | 49 44 | | ——— | 88 30 | | |
| | 53 31 | | ——— | 88 00 | | |
| | 57 13 | | ——— | 87 30 | | |
| | 5 08 00 | | ——— | 86 00 | | |
| | 11 37 | | ——— | 85 30 | | |
| | 15 00 | | ——— | 85 00 | | |
| ANNO CHRISTI MDCLXXIX. | | | | | | |
| ☿ Feb. 12 *vel* ♃ 13 *mane* | 19 00 00 | | Limbi Solis superior. à Vertice | 89 00 | | |
| | 03 30 | | ——— inferioris ——— | 89 00 | | |
| | 07 10 | | ——— | 88 30 | | |
| | 10 48 | | ——— | 88 00 | | |
| | 15 44 | | ——— | 87 20 | | |
| | 18 00 | | ——— | 87 00½ | | |
| | 21 36 | | ——— | 86 30 | | |
| | 25 12 | | ——— | 86 00 | | |
| | 28 46 | | ——— | 85 30 | | |
| | 32 24 | | ——— | 85 00 | | |
| | 35 54 | | ——— | 84 30 | | |
| | 20 56 11 | | ——— | 74 00 | | |
| | 59 10 | | ——— | 73 40 | | |
| | 21 01 56 | | ——— | 73 20 | | |
| | 04 42 | | ——— | 73 00 | | |
| ☉ 16 *vel* ☽ 17 *mane* | 18 54 36 | | Limbi Solis inferior. à Vertice | 89 00 | | |
| | 58 16 | | ——— | 88 30 | | |
| | 19 01 57 | | ——— | 88 00 | | |
| | 05 28 | | ——— | 87 30 | | |
| | 08 58 | | ——— | 87 00 | | |
| | 12 25 | | ——— | 86 30 | | |
| | 16 02 | | ——— | 86 00 | | |
| | 19 34 | | ——— | 85 30 | | |
| | 23 02 | | ——— | 85 00 | | |
| | 26 32 | | ——— | 84 30 | | |
| | 30 07 | | ——— | 84 00 | | |
| | 33 43 | | ——— | 83 30 | | |
| | 37 12 | | ——— | 83 00 | | |
| | 40 44 | | ——— | 82 30 | | |
| | 44 16 | | ——— | 82 00 | | |
| | 47 50 | | ——— | 81 30 | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium h ' " | Tempora ab Observationibus Correcta h ' " | OBSERVATIONES REFRACTIONUM. | Distantiæ à Vertice Observatæ. ° ' | Distantiæ à Vertice Supputatæ. ° ' | Refractiones inde Collectæ. ' |
|---|---|---|---|---|---|---|
| ☉ Feb. 16 vel ☽ 17 mane | 19 51 20 | | Limbi Solis inferior. à Vertice | 81 00 | | |
| | 54 57 | | | 80 30 | | |
| | 58 35 | | | 80 00 | | |
| | 20 41 44 | | | 74 20 | | |
| | 44 21 | | | 74 00 | | |
| | 48 30 | | | 73 30 | | |
| | 52 36 | | | 73 00 | | |
| ♀ Mar. 26 vel ♃ 27 mane | 17 40 58 | | Limb. Sol inferioris à Vertice | 88 00 | | |
| | 43 28 | | | 87 30 | | |
| | 46 49 | | | 87 00 | | |
| | 50 12 | | | 86 30 | | |
| | 53 40 | | | 86 00 | | |
| | 58 04 | | | 85 20 | | |
| | 18 00 14 | | | 85 00½ | | |
| | 03 36 | | | 84 30 | | |
| | 06 58 | | | 84 00 | | |
| | 10 13 | | | 83 30 | | |
| | 13 27 | | | 83 00 | | |
| | 16 45 | | | 82 30 | | |
| | 19 58 | | | 82 00 | | |
| | 23 13 | | | 81 30 | | |
| | 26 26 | | | 81 00 | | |
| | 29 29 | | | 80 30 | | |
| | 32 56 | | | 80 00 | | |
| | 36 08 | | | 79 30 | | |
| | 39 22 | | | 79 00 | | |
| | 45 52 | | | 78 00 | | |
| | 49 04 | | | 77 30 | | |
| | 52 42 | | | 77 00 | | |
| | 55 46 | | | 76 30 | | |
| | 58 50 | | | 76 00 | | |
| | 19 02 08 | | | 75 30 | | |
| | 05 18 | | | 75 00 | | |
| | 20 19 22 | | | 64 00 | | |
| | 22 56 | | | 63 30 | | |
| | 26 38 | | | 63 00 | | |
| | 30 06 | | | 62 30 | | |
| | 33 33 | | | 62 00 | | |
| | | | *Post Meridiem.* | | | |
| ♃ 27 | 3 49 00 | | Solis limbi superior. à Vertice | 64 30 | | |
| | 52 16 | | inferioris | 65 30 | | |
| | 55 41 | | | 65 59½ | | |
| | 4 00 10 | | | 66 39½ | | |
| | 02 37 | | | 67 00 | | |
| | 59 04 | | | 75 30 | | |
| | 5 25 04 | | | 79 30 | | |
| | 28 16 | | | 80 00 | | |

| Anno Christi 1679. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h ′ ″ | *Tempora ab Observationibus Correcta.* h ′ ″ | Observationes Refractionum. | *Distantiæ à Vertice Observata.* ° ′ | *Distantiæ à Vertice Supputata.* ° ′ | *Refractiones inde Collecta.* ′ |
|---|---|---|---|---|---|---|
| ☿ Mar. 27 | 5 31 30 | | Solis limbi superior. à Vertice | 80 30 | | |
| | 35 54 | | ——— | 81 10 | | |
| | 38 00 | | ——— | 81 30 | | |
| | 41 18 | | ——— | 82 00 | | |
| | 44 32 | | ——— | 82 30 | | |
| | 48 48 | | ——— | 83 10 | | |
| | 51 04 | | ——— | 83 30 | | |
| | 54 22 | | ——— | 84 00 | | |
| | 57 38 | | ——— | 84 30 | | |
| | 6 00 58 | | ——— | 85 00 | | |
| | 07 37 | | ——— | 86 00 | | |
| | 11 04 | | ——— | 86 30 | | |
| | 14 24 | | ——— | 87 00 | | |
| | 17 48 | | ——— | 87 30 | | |
| | 21 16 | | ——— | 88 00 | | |
| | 24 49 | | ——— | 88 30 | | |
| | 29 20 | | ——— | 89 00 | | |
| | 30 51 | | ——— | 89 20 | | |
| | 33 20 | | ——— | 89 40 | | |
| | 34 36 | | ——— | 89 50 | | |
| | 35 52 | | ——— | 90 00 | | |
| | 36 34 | | Solis Limbus inferior tetigit Horizont. | | | |
| | 39 20 | | Solis limbi superior. à Vertice | 90 00 | | |
| | 40 10 | | Solis limbus superior occidit. | | | |
| ♀ 28 *mane* | 17 25 22 | | Solis limbi inferior. à Vertice | 89 40 | | |
| | 30 50 | | ——— superioris ——— | 88 30 | | |
| | 34 12 | | ——— inferioris iterum. | 88 30 | | |
| | 37 44 | | ——— | 88 00 | | |
| | 41 18 | | ——— | 87 30 | | |
| | 44 42 | | ——— | 87 00 | | |
| | 48 02 | | ——— | 86 30 | | |
| | 51 30 | | ——— | 86 00 | | |
| | 54 54 | | ——— | 85 30 | | |
| | 58 08 | | ——— | 85 00 | | |
| | 18 01 28 | | ——— | 84 30 | | |
| | 04 47 | | ——— | 84 00 | | |
| | 08 04 | | ——— | 83 30 | | |
| | 11 18 | | ——— | 83 00 | | |
| | 14 36 | | ——— | 82 30 | | |
| | 17 50 | | ——— | 82 00 | | |
| | 21 08 | | ——— | 81 30 | | |
| | 24 16 | | ——— | 81 00 | | |
| | 27 34 | | ——— | 80 29 | | |
| | ::30 46 | | ——— | 80 00 | | |
| | 34 02 | | ——— | 79 30 | | |
| | 37 14 | | ——— | 79 00 | | |

| ANNO CHRISTI 1679. *Styl. Vet.* | *Tempora per Horologium Oscillatorium.* h ′ ″ | *Tempora ab Observationibus Correcta.* h ′ ″ | OBSERVATIONES REFRACTIONUM. | *Distantiæ à Vertice Observata.* ° ′ | *Distantiæ à Vertice Supputatæ.* ° ′ | *Refractiones inde Collectæ.* ′ |
|---|---|---|---|---|---|---|
| ♀ Mar. 28 *mane* | 18 40 24 | | Limb. Solis inferior. à Vertice | 78 30 | | |
| | 43 45 | | ——— | 78 00 | | |
| | 46 58 | | ——— | 77 30 | | |
| | 50 12 | | ——— | 77 00 | | |
| | 53 24 | | ——— | 76 30 | | |
| | 56 36 | | ——— | 76 00 | | |
| | 59 54 | | ——— | 75 30 | | |
| | 19 03 06 | | ——— | 75 00 | | |
| | 20 47 00 | | ——— | 59 50 | | |
| | 49 26 | | ——— | 59 30 | | |
| | 53 12 | | ——— | 59 00 | | |
| | 55 46 | | ——— | 58 40 | | |
| ♀ 28 | 5 52 48 | | Limb. Solis superior. à Vertice | 83 00 | | |
| | 57 06 | | ——— | 83 39½ | | |
| | 59 16 | | ——— | 84 00 | | |
| | 6 02 38 | | ——— | 84 30 | | |
| | 06 54 | | ——— | 85 00 | | |
| | 10 24 | | ——— | 85 40 | | |
| | 13 42 | | ——— | 86 10 | | |
| | 16 04 | | ——— | 86 30 | | |
| | 19 25 | | ——— | 87 00 | | |
| | 22 46 | | ——— | 87 30 | | |
| | 26 12 | | ——— | 88 00 | | |
| | 29 48 | | ——— | 88 30 | | |
| | 33 18 | | ——— | 89 00 | | |
| | 35 54 | | Limb. Solis inferior. à Vertice | 89 40 | | |
| | 37 40 | | | 90 00 | | |
| | 38 18 | | Limbus inferior occidit. | | | |
| | 40 54 | | Solis limbi superior. à Vertice | 90 00 | | |
| | 41 20 | | Exiit hic limbus è Conspectu | | | |
| ♄ 29 | 4 16 12 | | Limbi Solis inferioris ——— | 68 30 | | |
| | 22 49 | | ——— | 69 30 | | |
| | 26 10 | | ——— | 70 00 | | |
| | 29 30 | | ——— | 70 30½ | | |
| | 5 34 44 | | ——— | 80 30 | | |
| | 37 48 | | ——— | 81 00 | | |
| | 41 08 | | ——— | 81 30 | | |
| | 44 18 | | ——— | 82 00 | | |
| | 47 34 | | ——— | 82 30 | | |
| | 50 50 | | ——— | 83 00 | | |
| | 53 06 | | ——— | 83 30 | | |
| | 57 26 | | ——— | 84 00 | | |
| | 6 00 46 | | ——— | 84 30 | | |
| | 04 04 | | ——— | 85 00 | | |
| | 07 26 | | ——— | 85 30 | | |
| | 10 40 | | ——— | 86 00 | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium. h ′ ″ | Tempora ab Observationibus Correcta. h ′ ″ | OBSERVATIONES. REFRACTIONUM. | Distantia à Vertice Observata. ° ′ | Distantia à Vertice Supputata. ° ′ | Refractiones inde Collectae. ′ |
|---|---|---|---|---|---|---|
| ♄ Mar. 29 | 6 14 04 | | Limb. Solis inferior. à Vertice | 86 30 | | |
| | 17 30 | | ——— | 87 00 | | |
| | 20 58 | | ——— | 87 30 | | |
| | 24 28 | | ——— | 88 00 | | |
| | 27 54 | | ——— | 88 30 | | |
| | 31 30 | | ——— | 89 00 | | |
| | 35 26 | | ——— | 89 30 | | |
| | 38 50 | | Limb. Solis superior. à Vertice | 89 30 | | |
| | | | *Tunc nubes Horizontales excepere Solem.* | | | |
| ♀ Apr. 25 | 20 10 46 | 20 15 16 | Limb. Solis inferior. à Vertice | 56 30 | | |
| | 14 02 | 18 32 | ——— | 56 00 | | |
| | 17 24 | 21 54 | ——— | 55 30 | | |
| | 20 50 | 25 20 | ——— | 55 00 | | |
| | 24 10 | 28 40 | ——— | 54 30 | | |
| ♄ 26 | 3 36 18 | | Limb. Solis inferior. à Vertice | 55 50 | | |
| | 38 30 | | ——— | 56 10 | | |
| | 41 56 | | ——— | 56 40 | | |
| | 44 12 | | ——— | 57 00 | | |
| | 6 10 42 | | ——— | 79 30 | | |
| | 15 12 | | ——— | 80 10 | | |
| | 17 30 | | ——— | 80 30 | | |
| | 20 52 | | ——— | 81 00 | | |
| | 24 18 | | ——— | 81 30 | | |
| | 27 40 | | ——— | 82 00 | | |
| | 31 00 | | ——— | 82 30 | | |
| | 34 27 | | ——— | 83 00 | | |
| | 44 56 | | ——— | 84 30 | | |
| | 49 30 | | ——— | 85 10 | | |
| | 55 28 | | ——— | 86 00 | | |
| | 59 12 | | ——— | 86 30 | | |
| | 7 04 00 | | ——— | 87 10 | | |
| | 06 34 | | ——— | 87 30 | | |
| | 10 18 | | ——— | 88 00 | | |
| | 14 15 | | ——— | 88 30 | | |
| | 18 00 | | ——— | 89 00 | | |
| | 20 52 | | ——— | 89 20 | | |
| | 28 50 | | Limbi Solis superior. à Vertice | 89 49 | | |
| ☉ 27 *vel* ☽ 28 *mane* | 16 19 29 | | Limb. Solis superior. à Vertice | 89 50 | | |
| | 23 17 | | ——— inferior. ——— | 89 50 | | |
| | 26 25 | | ——— | 89 30 | | |
| | 30 44 | | ——— | 89 00 | | |
| | 34 40 | | ——— | 88 30 | | |
| | 39 49 | | ——— | 87 50 | | |
| | 42 18 | | ——— | 87 30 | | |
| | 46 02 | | ——— | 87 00 | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium. h ' " | Tempora ab Observationibus Correcta. h ' " | OBSERVATIONES REFRACTIONUM. | Distantiæ à Vertice Observatæ. ° ' | Distantiæ à Vertice Supputatæ. ° ' | Refractiones inde Collectæ. ' |
|---|---|---|---|---|---|---|
| ☉ Apr. 27 | 16 49 43 | | Limbi Solis inferior. à Vertice | 86 30 | | |
| *vel* | 53 26 | | —— | 86 00 | | |
| ☽ 28 | 57 02 | | —— | 85 30 | | |
| *mane* | 17 00 35 | | —— | 85 00 | | |
| | 20 14 26 | 20 18 59 | —— | 55 30 | | |
| | 17 50 | 22 23 | —— | 55 00 | | |
| | 21 08 | 25 41 | —— | 54 30 | | |
| | 25 40 | 30 13 | —— | 53 50 | | |
| | 28 00 | 32 33 | —— | 53 30 | | |
| ☽ 28 | 6 27 00 | | Limb. Solis inferior. à Vertice | 81 30 | | |
| | 33 55 | | —— | 82 30 | | |
| | 37 21 | | —— | 83 00 | | |
| | 40 52 | | —— | 83 30 | | |
| | 45 34 | | —— | 84 10 | | |
| | 58 36 | | —— | 86 00 | | |
| | 7 02 15 | | —— *Per nubes densas.* —— | 86 30 | | |
| ☿ Jun. 18 | 15 59 28 | | Solis limbi inferior. à Vertice | 89 20 | | |
| *vel* | 16 04 08 | | —— | 88 50 | | |
| ♃ 19 | 07 00 | | —— | 88 30 | | |
| *mane* | 11 19 | | —— | 88 00 | | |
| | 15 36 | | —— | 87 30 | | |
| | 19 42 | | —— | 87 00 | | |
| | 23 42 | | —— | 86 30 | | |
| | 27 48 | | —— | 86 00 | | |
| | 31 49 | | —— | 85 30 | | |
| | 35 45 | | —— | 85 00 | | |
| | 39 30 | | —— | 84 30 | | |
| | 43 27 | | —— | 84 00 | | |
| | 47 13 | | —— | 83 30 | | |
| | 51 00 | | —— | 83 00 | | |
| | 55 51 | | —— | 82 20 | | |
| | 57 58 | | —— | 82 00 | | |
| | 20 15 16 | | —— | 52 30 | | |
| | 18 35 | | —— | 52 00 | | |
| | 21 51 | | —— | 51 30 | | |
| | 25 16 | | —— | 51 00 | | |
| | 28 30 | | —— | 50 30 | | |
| | 32 46 | | —— | 50 00 | | |
| ☉ Julii 27 | 16 38 28 | | Solis limbi superior. à Vertice | 89 50 | | |
| *vel* | 42 29 | | —— inferior. —— | 89 50 | | |
| ☽ 28 | 46 54 | | —— | 89 20 | | |
| *mane* | 49 37 | | —— | 89 00 | | |
| | 53 36 | | —— | 88 30 | | |
| | 57 23 | | —— | 88 00 | | |
| | 17 01 09 | | —— | 87 30 | | |
| | 04 51 | | —— | 87 00 | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium h ' " | Tempora ab Observationibus Correcta. h ' " | OBSERVATIONES. REFRACTIONUM. | Distantiæ à Vertice Observatæ. ° ' | Distantiæ à Vertice Supputatæ. ° ' | Refractiones inde Collectæ. ' |
|---|---|---|---|---|---|---|
| ☉ Julii 27 | 17 08 28 | | Limbi Solis inferior. à Vertice | 86 30 | | |
| *vel* | 12 11 | | — | 86 00 | | |
| ☽ 28 | 15 44 | | — | 85 30 | | |
| *mane.* | 19 14 | | — | 85 00 | | |
| | 20 25 34 | | — | 56 40 | | |
| | 27 52 | | — | 56 20 | | |
| | 30 03 | | — | 56 00 | | |
| | 32 16 | | — | 55 40 | | |
| | 34 31 | | — | 55 20 | | |
| | 36 48 | | — | 55 00 | | |
| ☽ 28 | 4 02 13 | | Limbi Solis inferior. à Vertice | 57 40 | | |
| | 04 30 | | — | 57 59 | | |
| | 06 38 | | — | 58 20 | | |
| | 08 55 | | — | 58 40 | | |
| | 13 16 | | — | 59 20 | | |
| | 15 23 | | — | 59 40 | | |
| | 17 36 | | — | 60 00 | | |
| | 7 15 52 | | — | 87 00 | | |
| | 19 27 | | — | 87 30 | | |
| | 23 06 | | — | 88 00 | | |
| | 26 56 | | — | 88 29 | | |
| | 30 48 | | — | 89 00 | | |
| | 33 32 | | — | 89 20 | | |
| | 36 14 | | — | 89 40 | | |
| | 40 11 | | Limbi Solis superior. à Vertice | 89 40 | | |
| ♃ 31 | 6 52 58 | | Limbi Solis inferior. à Vertice | 84 30 | | |
| | 56 26 | | — | 85 00 | | |
| | 59 23 | | — | 85 30 | | |
| | 7 03 20 | | — | 86 00 | | |
| | 07 00 | | — | 86 30 | | |
| | 10 34 | | — | 87 00 | | |
| | 14 08 | | — | 87 30 | | |
| | 17 53 | | — | 88 00 | | |
| | 21 36 | | — | 88 30 | | |
| | 25 22 | | — | 89 00 | | |
| | 28 11 | | — | 89 20 | | |
| | 30 53 | | — | 89 40 | | |
| | 32 23 | | — | 89 50 | | |
| | 33 46 | | Limbus inferior attigit Horizontem. | | | |
| | 34 46 | | Solis limbi superior. à Vertice | 89 40 | | |
| | 36 09 | | — | 89 50 | | |
| | 37 47 | | Limb. super. attigit Horizont. | 89 59 | | |
| ♃ 31 | 19 44 31 | | Limb. Solis inferior. à Vertice | 63 40 | | |
| *vel* | 46 36 | | — | 63 20 | | |
| ♀ Aug. 1 | 48 46 | | — | 63 00 | | |
| *mane* | | | | | | |

| Anno Christi 1679. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ab Observationibus Correcta h ′ ″ | OBSERVATIONES. Refractionum. | Distantiæ à Vertice Observata. ° ′ | Distantiæ à Vertice Supputata. ° ′ | Refractiones inde Collectæ. ′ |
|---|---|---|---|---|---|---|
| ♀ Aug. 1 | 19 50 58 | | Limbi Solis inferior. à Vertice | 62 40 | | |
| | 53 07 | | —— | 62 20 | | |
| | 56 21 | | —— | 61 50 | | |
| ☉ Aug. 31 *vel* ☽ Sept. 1 *mane* | 17 41 48 | | Solis limbi inferior. à Vertice | 89 30 | | |
| | 45 43 | | —— | 89 00 | | |
| | 49 17 | | —— | 88 30 | | |
| | 52 50 | | —— | 88 00 | | |
| | 56 14 | | —— | 87 30 | | |
| | 59 41 | | —— | 87 00 | | |
| | 18 03 00 | | —— | 86 30 | | |
| | 06 24 | | —— | 86 00 | | |
| | 09 45 | | —— | 85 30 | | |
| | 13 00 | | —— | 85 00 | | |
| | 16 20 | | —— | 84 30 | | |
| | 19 39 | | —— | 84 00 | | |
| | 22 56 | | —— | 83 30 | | |
| | 20 19 51 | | —— | 66 00 | | |
| | 23 26 | | —— | 65 29½ | | |
| | 27 01 | | —— | 65 00 | | |
| | 30 39 | | —— | 64 30 | | |
| | 34 13 | | —— | 64 00 | | |
| | 38 00 | | —— | 63 30 | | |
| | 41 40 | | —— | 62 59½ | | |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ab Observationibus Correcta h ′ ″ | OBSERVATIONES Refractionum. | Distantiæ per lineas diagonales. ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♂ Feb. 22 | 22 53 25 | 22 50 37 | Venus à limbo Solis remoto | 41 25 25 | 992 13 | 41 25 50 |
| | 58 58 | 56 02 | —— à limbo Solis proximo | 40 52 30 | 979 17 | 40 53 20 |
| | 23 01 08 | 58 20 | —— | 40 52 45 | 979 33 | 40 53 44 |
| | 02 58 | 23 00 10 | —— | 40 52 50 | 979 37 | 40 53 50 |
| | | | *Deinde post Meridiem.* | | | |
| ☿ —— 23 | 2 26 25 | 2 23 37 | Venus à limbo Solis proximo | 40 53 25 | 979 66 | 40 54 33 |
| | 28 59 | 26 11 | —— | 40 53 25 | 979 66 | 40 54 33 |
| | 4 27 54 | 4 25 06 | —— | 40 51 45 | 979 07 | 40 53 05 |
| | 30 07 | 27 19 | —— | 40 51 30 | 978 97 | 40 52 50 |
| | 36 23 | 33 35 | —— | 40 51 25 | 978 89 | |
| | 42 18 | 39 30 | —— | 40 50 50 | 978 67 | |
| | 48 24 | 45 36 | —— | 40 50 20 | 978 52 | |
| | 53 55 | 51 07 | —— | 40 50 00 | 978 31 | |
| | 5 00 10 | 57 22 | —— | 40 48 45 | 977 86 | |
| | 06 45 | 5 03 57 | —— | 40 47 20 | 977 31 | |
| | 10 54 | 08 06 | —— | 40 46 15 | 976 89 | |
| | 14 27 | 11 39 | —— | 40 45 15 | 976 44 | |
| | 17 15 | 14 27 | —— | 40 44 00 | 975 96 | |
| | 20 37 | 17 49 | —— | 40 42 50 | 975 46 | |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h ' " | Tempora ab Observationibus Correcta. h ' " | OBSERVATIONES REFRACTIONUM. | Distantiæ per lineas diagonales. ° ' " | Distantia per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| ☿ Feb. 23 | 5 23 40 | 5 20 52 | Venus à limbo Solis proximo | 40 41 15 | 974 78 | |
| | 25 34 | 22 46 | —— | 40 40 15 | 974 37 | |
| | 28 48 | 26 00 | —— | 40 38 25 | 973 64 | 40 39 27 |
| | 41 11 | 38 23 | Venus à Palilicio —— | 38 45 15 | 928 32 | 38 45 50 |
| ☽ Apr. 11 | 6 10 46 | 6 18 12 | Venus à limbo Solis proximo | 45 15 00 | 1083 88 | 45 15 37 |
| | 12 35 | 20 01 | —— | 45 14 35 | 1083 80 | 45 15 25 |
| | 33 18 | 40 44 | —— | 45 10 50 | 1082 17 | 45 11 21 |
| | 34 26 | 41 52 | —— | 45 10 30 | 1082 07 | 45 11 06 |
| | 37 48 | 45 14 | —— | 45 09 20 | 1081 54 | 45 09 45 |
| | 51 45 | 59 11 | —— | 45 01 50 | 1078 59 | 45 02 22 |
| | 54 22 | 7 01 48 | —— | 44 59 30 | 1077 70 | 45 00 09 |
| | 56 18 | 03 44 | —— | 44 57 00 | 1076 70 | 44 57 38 |
| | 57 27 | 04 53 | —— | 44 56 10 | 1076 28 | 44 56 35 |
| | 59 02 | 06 28 | —— | 44 54 10 | 1075 78 | 44 55 20 |
| | 59 58 | 07 24 | —— | 44 53 05 | 1075 32 | 44 54 10 |
| | 7 01 26 | 08 52 | —— | 44 50 30 | 1074 20 | 44 51 22 |
| | 01 52 | 09 18 | Occas. appar. limb. Solis super. | | | |
| ♃ 21 | 4 04 23 | 4 13 33 | Venus à limbo Solis remoto — | 45 14 10 | 1083 59 | 45 14 54 |
| | 11 25 | 20 36 | —— à limbo Solis proximo | 44 42 10 | 1070 87 | 44 43 03 |
| | 5 58 41 | 6 07 52 | —— rep. | 44 39 15 | 1069 71 | 44 40 09 |
| | 6 00 58 | 10 09 | —— | 44 39 15 | 1069 74 | 44 40 13 |
| | 08 16 | 17 27 | —— | 44 38 50 | 1069 60 | 44 39 52 |
| | 16 23 | 25 34 | —— | 44 38 20 | 1069 26 | 44 39 00 |
| | 20 53 | 30 04 | —— | 44 37 30 | 1068 90 | 44 38 06 |
| | 37 14 | 46 25 | —— | 44 35 30 | 1068 19 | 44 36 19 |
| | 6 44 26 | 53 37 | —— | 44 33 50 | 1067 51 | 44 34 37 |
| | 49 44 | 6 58 55 | —— | 44 32 45 | 1067 09 | 44 33 35 |
| | 54 37 | 7 03 48 | —— | 44 31 00 | 1066 42 | 44 31 54 |
| | 55 22 | 04 33 | —— | 44 30 40 | 1066 22 | 44 31 24 |
| | 57 07 | 06 18 | —— | 44 30 20 | 1066 11 | 44 31 07 |
| | 59 02 | 08 13 | —— | 44 29 20 | 1065 70 | 44 30 06 |
| | 7 00 09 | 09 20 | —— | 44 28 40 | 1065 45 | 44 29 29 |
| | 02 24 | 11 35 | —— | 44 27 25 | 1064 94 | 44 28 12 |
| | 04 06 | 13 17 | —— | 44 26 35 | 1064 61 | 44 27 22 |
| | 05 30 | 14 41 | —— | 44 25 40 | 1064 26 | 44 26 30 |
| | 07 54 | 17 05 | —— | 44 23 35 | 1063 55 | 44 24 44 |
| | 09 01 | 18 12 | —— | 44 23 10 | 1063 33 | 44 24 10 |
| | 10 12 | 19 23 | —— | 44 21 50 | 1062 80 | 44 22 51 |
| | 11 14 | 20 25 | —— | 44 21 00 | 1062 48 | 44 22 03 |
| | 12 01 | 21 11 | —— | 44 20 20 | 1062 22 | 44 21 24 |
| | 13 09 | 22 18 | —— | 44 19 10 | 1061 77 | 44 20 16 |
| | 14 20 | 23 31 | —— | 44 18 30 | 1061 49 | 44 19 33 |
| | 16 22 | 25 33 | —— | 44 16 00 | 1060 50 | 44 17 05 |
| | 17 00 | 26 11 | —— | 44 15 00 | 1060 12 | 44 16 07 |
| | 17 28 | 26 39 | —— | 44 14 40 | 1059 91 | 44 15 36 |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium h ′ ″ | Tempora ab Observationibus Correcta h ′ ″ | OBSERVATIONES REFRACTIONUM. | Distantiæ per lineas diagonales ° ′ ″ | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ′ ″ |
|---|---|---|---|---|---|---|
| ♃ Apr. 21 | 7 17 53 | 7 27 04 | Occasus apparens limbi Solis superioris ——— | | | |
| ♄ 23 | 6 48 25 | 6 57 55 | Venus à limbo Solis proximo | 44 18 30 | 1061 48 | 44 19 33 |
| | 56 00 | 7 05 30 | ——— | 44 16 50 | 1060 71 | 44 17 36 |
| | 57 42 | 07 12 | ——— | 44 16 15 | 1060 49 | 44 17 03 |
| | 7 00 09 | 09 39 | ——— | 44 14 55 | 1059 96 | 44 15 44 |
| | 02 22 | 11 52 | ——— | 44 14 15 | 1059 68 | 44 15 02 |
| | 06 03 | 15 33 | ——— | 44 12 15 | 1058 84 | 44 12 55 |
| | 07 18 | 16 48 | ——— | 44 11 45 | 1058 66 | 44 12 28 |
| | 09 35 | 19 05 | ——— | 44 10 00 | 1058 01 | 44 10 51 |
| | 11 11 | 20 41 | ——— | 44 09 05 | 1057 60 | 44 09 50 |
| | 12 27 | 21 57 | ——— | 44 08 10 | 1057 20 | 44 08 50 |
| | 13 40 | 23 10 | ——— | 44 07 00 | 1056 76 | 44 07 44 |
| | 15 51 | 25 21 | ——— | 44 05 00 | 1055 99 | 44 05 48 |
| | 17 13 | 26 43 | ——— | 44 03 50 | 1055 48 | 44 04 31 |
| | 18 13 | 27 43 | ——— | 44 02 25 | 1054 89 | 44 03 03 |
| | 19 14 | 28 44 | ——— | 44 02 20 | 1054 45 | 44 01 57 |
| | 20 41 | 30 11 | ——— | 43 59 20 | 1053 61 | 43 59 51 |
| | 21 18 | 30 48 | Occasus apparens limbi Solis superioris ——— | | | |
| ☽ 25 | 5 49 02 | 5 58 49 | Venus à limbo Solis proximo | 44 08 00 | 1057 17 | 44 08 45 |
| | 51 02 | 6 00 49 | ——— | 44 07 40 | 1057 05 | 44 08 27 |
| | 6 03 59 | 13 46 | ——— | 44 07 20 | 1056 49 | 44 07 03 |
| | 34 57 | 44 44 | ——— | 44 04 15 | 1055 70 | 44 05 05 |
| | 36 06 | 45 53 | ——— | 44 04 15 | 1055 67 | 44 05 00 |
| | 39 35 | 49 22 | ——— | 44 03 35 | 1055 41 | 44 04 21 |
| | 43 13 | 53 00 | ——— | 44 03 00 | 1055 14 | 44 03 40 |
| | 44 51 | 54 38 | ——— | 44 02 50 | 1055 11 | 44 03 35 |
| | 46 33 | 56 20 | ——— | 44 02 40 | 1054 98 | 44 03 16 |
| | 48 53 | 58 40 | ——— | 44 02 05 | 1054 77 | 44 02 45 |
| | 51 40 | 7 01 27 | ——— | 44 01 25 | 1054 52 | 44 02 08 |
| | 54 31 | 04 18 | ——— | 44 01 00 | 1054 32 | 44 01 38 |
| | 7 02 56 | 12 43 | ——— | 43 58 25 | 1053 13 | 43 58 39 |
| | 05 57 | 15 44 | ——— | 43 57 05 | 1052 65 | 43 57 25 |
| | 07 51 | 17 38 | ——— | 43 56 10 | 1052 25 | 43 56 20 |
| | 09 06 | 18 53 | ——— | 43 55 15 | 1051 89 | 43 55 31 |
| | 12 25 | 22 12 | ——— | 43 53 15 | 1051 09 | 43 53 31 |
| | 13 38 | 23 25 | ——— | 43 52 30 | 1050 76 | 43 52 42 |
| | 14 52 | 24 49 | ——— | 43 51 15 | 1050 31 | 43 51 34 |
| | 17 11 | 26 58 | ——— | 43 49 20 | 1049 58 | 43 49 45 |
| | 18 09 | 27 56 | ——— | 43 48 40 | 1049 27 | 43 48 59 |
| | 19 20 | 29 07 | ——— | 43 47 40 | 1048 88 | 43 48 00 |
| | 20 18 | 30 03 | ——— | 43 46 15 | 1048 32 | 43 46 34 |
| | 21 13 | 31 00 | ——— | 43 45 00 | 1047 89 | 43 45 30 |
| | 21 40 | 31 27 | ——— | 43 44 30 | 1047 36 | 43 44 10 |

| Anno Christi 1681. Styl. Vet. | Tempora per Horologium Oscillatorium. h ' " | Tempora ab Observationibus Correcta. h ' " | OBSERVATIONES REFRACTIONUM. | Distantiæ per lineas diagonales. ° ' " | Distantiæ per Cochleæ Revolutiones, cum Circuli partibus Respondentibus. Revol. Cent. | ° ' " |
|---|---|---|---|---|---|---|
| ☽ Apr. 25 | 7 22 46 | 7 32 33 | Sol videri desiit à fuligine Urbis & Horizonte interceptus. | | | |
| ♂ 26 | 6 15 46 | 6 25 41 | Venus à limbo Solis proximo | 43 56 30 | 1052 43 | 43 56 53 |
| | 17 28 | 27 23 | ——— | 43 56 30 | 1052 44 | 43 56 44 |
| | 19 42 | 29 37 | ——— | 43 56 15 | 1052 29 | 43 56 31 |
| | 44 10 | 54 05 | ——— | 43 53 25 | 1051 19 | 43 53 46 |
| | 45 27 | 55 22 | ——— | 43 53 00 | 1051 02 | 43 53 21 |
| | 48 11 | 58 06 | ——— | 43 52 30 | 1050 83 | 43 52 52 |
| | 54 29 | 7 04 24 | ——— | 43 51 15 | 1050 28 | 43 51 30 |
| | 56 43 | 06 38 | ——— | 43 50 50 | 1050 15 | 43 51 10 |
| | 7 05 06 | 15 01 | ——— | 43 47 45 | 1048 90 | 43 48 03 |
| | 06 11 | 16 06 | ——— | 43 47 15 | 1048 70 | 43 47 32 |
| | 08 11 | 18 06 | ——— | 43 46 30 | 1048 44 | 43 46 52 |
| | 10 06 | 20 01 | ——— | 43 45 00 | 1047 86 | 43 45 25 |
| | 11 46 | 21 41 | ——— | 43 44 15 | 1047 57 | 43 44 42 |
| | 13 11 | 23 06 | ——— | 43 43 35 | 1047 25 | 43 43 54 |
| | 14 46 | 24 41 | ——— | 43 42 40 | 1046 88 | 43 42 58 |
| | 15 51 | 25 46 | ——— | 43 41 50 | 1046 56 | 43 42 10 |
| | 17 08 | 27 03 | ——— | 43 41 00 | 1046 22 | 43 41 20 |
| | 18 29 | 28 24 | ——— | 43 40 00 | 1045 82 | 43 40 20 |
| | 19 21 | 29 16 | ——— | 43 39 30 | 1045 62 | 43 39 50 |
| | 20 29 | 30 24 | ——— | 43 38 20 | 1045 14 | 43 38 37 |
| | 21 18 | 31 13 | ——— | 43 37 30 | 1044 76 | 43 37 40 |
| | 21 50 | 31 45 | ——— | 43 37 00 | 1044 60 | 43 37 16 |
| | 22 32 | 32 27 | ——— | 43 36 10 | 1044 27 | 43 36 27 |
| | ::23 05 | ::33 00 | ——— | 43 35 20 | 1043 94 | 43 35 36 |
| | ::23 39 | 33 34 | ——— | 43 34 10 | 1043 53 | 43 34 34 |
| | 24 23 | 34 18 | ——— | 43 33 40 | 1043 32 | 43 34 03 |
| | 25 13 | 35 08 | Occasus apparens limbi Solis superioris. | | | |
| | | | *Vide Distantias Veneris à Sole circa Meridiem, April 11. 21. 22. 25. 26. inter Observationes Solis & Veneris.* | | | |

*Finis Libri Primi.*

# TABULA

Pro Converſione Revolutionum Cochleæ Limbum Sextantis admordentis, & partium Centeſimarum, in partes Circuli Sexagenarias, ſive Gradus, Minuta, & Secunda.

5 F

**TABULA** pro converſione Revolutionum Cochleæ, &c. in gradus, minuta, &c. Circuli.

| | Gr. 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| ′ | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent |
| 0 | 0 00 | 23 95 | 47 91 | 71 82 | 95 73 | 119 64 | 143 57 | 167 52 | 191 46 | 215 42 |
| 1 | 0 40 | 24 35 | 48 30 | 72 22 | 96 13 | 120 04 | 143 97 | 167 92 | 191 86 | 215 82 |
| 2 | 0 80 | 24 75 | 48 70 | 72 62 | 96 53 | 120 44 | 144 37 | 168 32 | 192 26 | 216 22 |
| 3 | 1 20 | 25 15 | 49 10 | 73 02 | 96 93 | 120 84 | 144 77 | 168 72 | 192 66 | 216 62 |
| 4 | 1 60 | 25 55 | 49 50 | 73 42 | 97 33 | 121 24 | 145 17 | 169 12 | 193 06 | 217 02 |
| 5 | 2 00 | 25 95 | 49 90 | 73 82 | 97 73 | 121 64 | 145 57 | 169 52 | 193 46 | 217 42 |
| 6 | 2 39 | 26 35 | 50 30 | 74 22 | 98 13 | 122 04 | 145 97 | 169 92 | 193 86 | 217 82 |
| 7 | 2 79 | 26 75 | 50 69 | 74 61 | 98 52 | 122 44 | 146 37 | 170 32 | 194 26 | 218 22 |
| 8 | 3 19 | 27 15 | 51 09 | 75 01 | 98 92 | 122 84 | 146 77 | 170 72 | 194 66 | 218 62 |
| 9 | 3 59 | 27 55 | 51 49 | 75 41 | 99 32 | 123 23 | 147 17 | 171 12 | 195 06 | 219 02 |
| 10 | 3 99 | 27 95 | 51 89 | 75 81 | 99 72 | 123 63 | 147 57 | 171 51 | 195 46 | 219 42 |
| 11 | 4 39 | 28 35 | 52 29 | 76 21 | 100 12 | 124 03 | 147 97 | 171 91 | 195 86 | 219 82 |
| 12 | 4 79 | 28 74 | 52 69 | 76 61 | 100 52 | 124 43 | 148 36 | 172 31 | 196 26 | 220 22 |
| 13 | 5 19 | 29 14 | 53 09 | 77 01 | 100 92 | 124 83 | 148 76 | 172 71 | 196 66 | 220 62 |
| 14 | 5 59 | 29 54 | 53 49 | 77 40 | 101 31 | 125 23 | 149 16 | 173 11 | 197 06 | 221 02 |
| 15 | 5 99 | 29 94 | 53 88 | 77 80 | 101 71 | 125 63 | 149 56 | 173 51 | 197 45 | 221 42 |
| 16 | 6 38 | 30 34 | 54 28 | 78 20 | 102 11 | 126 03 | 149 96 | 173 91 | 197 85 | 221 82 |
| 17 | 6 78 | 30 74 | 54 68 | 78 60 | 102 51 | 126 42 | 150 36 | 174 31 | 198 25 | 222 22 |
| 18 | 7 18 | 31 14 | 55 08 | 79 00 | 102 91 | 126 82 | 150 76 | 174 71 | 198 65 | 222 62 |
| 19 | 7 58 | 31 54 | 55 48 | 79 40 | 103 31 | 127 22 | 151 16 | 175 11 | 199 05 | 223 02 |
| 20 | 7 98 | 31 94 | 55 88 | 79 80 | 103 70 | 127 62 | 151 56 | 175 50 | 199 45 | 223 41 |
| 21 | 8 38 | 32 34 | 56 28 | 80 19 | 104 10 | 128 02 | 151 96 | 175 90 | 199 85 | 223 81 |
| 22 | 8 78 | 32 74 | 56 68 | 80 59 | 104 50 | 128 42 | 152 36 | 176 30 | 200 25 | 224 21 |
| 23 | 9 18 | 33 14 | 57 08 | 80 99 | 104 90 | 128 82 | 152 76 | 176 70 | 200 65 | 224 61 |
| 24 | 9 58 | 33 53 | 57 48 | 81 39 | 105 30 | 129 22 | 153 15 | 177 10 | 201 05 | 225 01 |
| 25 | 9 98 | 33 93 | 57 88 | 81 79 | 105 70 | 129 62 | 153 55 | 177 50 | 201 45 | 225 41 |
| 26 | 10 38 | 34 33 | 58 27 | 82 19 | 106 10 | 130 01 | 153 95 | 177 90 | 201 85 | 225 81 |
| 27 | 10 78 | 34 73 | 58 67 | 82 58 | 106 49 | 130 41 | 154 35 | 178 30 | 202 25 | 226 21 |
| 28 | 11 18 | 35 13 | 59 07 | 82 98 | 106 89 | 130 81 | 154 75 | 178 70 | 202 65 | 226 61 |
| 29 | 11 57 | 35 53 | 59 47 | 83 38 | 107 29 | 131 21 | 155 15 | 179 10 | 203 05 | 227 01 |
| 30 | 11 97 | 35 93 | 59 86 | 83 78 | 107 69 | 131 61 | 155 55 | 179 49 | 203 44 | 227 41 |
| 31 | 12 37 | 36 33 | 60 26 | 84 18 | 108 09 | 132 01 | 155 95 | 179 89 | 203 84 | 227 81 |
| 32 | 12 77 | 36 73 | 60 66 | 84 58 | 108 49 | 132 41 | 156 35 | 180 29 | 204 24 | 228 21 |
| 33 | 13 17 | 37 13 | 61 06 | 84 98 | 108 89 | 132 81 | 156 75 | 180 69 | 204 64 | 228 61 |
| 34 | 13 57 | 37 53 | 61 46 | 85 37 | 109 28 | 133 20 | 157 15 | 181 09 | 205 04 | 229 01 |
| 35 | 13 97 | 37 93 | 61 86 | 85 77 | 109 68 | 133 60 | 157 55 | 181 49 | 205 44 | 229 41 |
| 36 | 14 37 | 38 32 | 62 26 | 86 17 | 110 08 | 134 00 | 157 94 | 181 89 | 205 84 | 229 81 |
| 37 | 14 77 | 38 72 | 62 65 | 86 57 | 110 48 | 134 40 | 158 34 | 182 29 | 206 24 | 230 21 |
| 38 | 15 17 | 39 12 | 63 05 | 86 97 | 110 88 | 134 80 | 158 74 | 182 69 | 206 64 | 230 61 |
| 39 | 15 56 | 39 52 | 63 45 | 87 37 | 111 28 | 135 20 | 159 14 | 183 09 | 207 04 | 231 01 |
| 40 | 15 96 | 39 92 | 63 85 | 87 76 | 111 67 | 135 60 | 159 54 | 183 48 | 207 44 | 231 40 |
| 41 | 16 36 | 40 32 | 64 25 | 88 16 | 112 07 | 136 00 | 159 94 | 183 88 | 207 84 | 231 80 |
| 42 | 16 76 | 40 72 | 64 65 | 88 56 | 112 47 | 136 40 | 160 34 | 184 28 | 208 24 | 232 20 |
| 43 | 17 16 | 41 12 | 65 05 | 88 96 | 112 87 | 136 79 | 160 74 | 184 68 | 208 64 | 232 60 |
| 44 | 17 56 | 41 52 | 65 45 | 89 36 | 113 27 | 137 19 | 161 14 | 185 08 | 209 04 | 233 00 |
| 45 | 17 96 | 41 92 | 65 84 | 89 76 | 113 67 | 137 59 | 161 54 | 185 48 | 209 43 | 233 40 |
| 46 | 18 35 | 42 32 | 66 24 | 90 15 | 114 07 | 137 99 | 161 94 | 185 88 | 209 83 | 233 80 |
| 47 | 18 75 | 42 72 | 66 64 | 90 55 | 114 46 | 138 39 | 162 34 | 186 28 | 210 23 | 234 20 |
| 48 | 19 15 | 43 11 | 67 04 | 90 95 | 114 86 | 138 79 | 162 73 | 186 68 | 210 63 | 234 60 |
| 49 | 19 55 | 43 51 | 67 44 | 91 35 | 115 26 | 139 19 | 163 13 | 187 08 | 211 03 | 235 00 |
| 50 | 19 95 | 43 91 | 67 84 | 91 75 | 115 66 | 139 59 | 163 53 | 187 48 | 211 43 | 235 40 |
| 51 | 20 35 | 44 31 | 68 24 | 92 15 | 116 06 | 139 98 | 163 93 | 187 87 | 211 83 | 235 80 |
| 52 | 20 74 | 44 71 | 68 63 | 92 55 | 116 46 | 140 38 | 164 33 | 188 27 | 212 23 | 236 20 |
| 53 | 21 14 | 45 11 | 69 03 | 92 95 | 116 86 | 140 78 | 164 73 | 188 67 | 212 63 | 236 60 |
| 54 | 21 54 | 45 51 | 69 43 | 93 34 | 117 25 | 141 18 | 165 13 | 189 07 | 213 03 | 237 00 |
| 55 | 21 94 | 45 91 | 69 83 | 93 74 | 117 65 | 141 58 | 165 53 | 189 47 | 213 43 | 237 40 |
| 56 | 22 34 | 46 31 | 70 23 | 94 14 | 118 05 | 141 98 | 165 93 | 189 87 | 213 83 | 237 80 |
| 57 | 22 74 | 46 71 | 70 63 | 94 54 | 118 45 | 142 38 | 166 33 | 190 27 | 214 23 | 238 20 |
| 58 | 23 14 | 47 11 | 71 03 | 94 94 | 118 85 | 142 78 | 166 73 | 190 67 | 214 63 | 238 60 |
| 59 | 23 54 | 47 51 | 71 43 | 95 34 | 119 25 | 143 17 | 167 13 | 191 07 | 215 03 | 239 00 |
| 60 | 23 94 | 47 91 | 71 82 | 95 73 | 119 64 | 143 57 | 167 52 | 191 46 | 215 42 | 239 39 |

TABULA pro conversione Revolutionum Cochleæ, &c. in gradus, minuta, &c. Circuli.

| | Gr. 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent |
| 0 | 239 | 39 | 263 | 37 | 287 | 34 | 311 | 31 | 335 | 28 | 359 | 27 | 383 | 24 | 407 | 20 | 431 | 14 | 455 | 10 | 478 | 98 |
| 1 | 239 | 79 | 263 | 77 | 287 | 74 | 311 | 71 | 335 | 68 | 359 | 67 | 383 | 64 | 407 | 60 | 431 | 54 | 455 | 50 | 479 | 38 |
| 2 | 240 | 19 | 264 | 17 | 288 | 14 | 312 | 11 | 336 | 08 | 360 | 07 | 384 | 04 | 408 | 00 | 431 | 94 | 455 | 90 | 479 | 78 |
| 3 | 240 | 59 | 264 | 57 | 288 | 54 | 312 | 51 | 336 | 48 | 360 | 47 | 384 | 44 | 408 | 40 | 432 | 34 | 456 | 30 | 480 | 18 |
| 4 | 240 | 99 | 264 | 97 | 288 | 94 | 312 | 91 | 335 | 88 | 360 | 87 | 384 | 84 | 408 | 80 | 432 | 74 | 456 | 70 | 480 | 57 |
| 5 | 241 | 39 | 265 | 37 | 289 | 34 | 313 | 31 | 337 | 28 | 361 | 27 | 385 | 24 | 409 | 20 | 433 | 14 | 457 | 09 | 480 | 97 |
| 6 | 241 | 79 | 265 | 77 | 289 | 74 | 313 | 71 | 337 | 68 | 361 | 67 | 385 | 64 | 409 | 60 | 433 | 54 | 457 | 49 | 481 | 37 |
| 7 | 242 | 19 | 266 | 17 | 290 | 14 | 314 | 11 | 338 | 08 | 362 | 07 | 386 | 04 | 410 | 00 | 433 | 94 | 457 | 89 | 481 | 77 |
| 8 | 242 | 59 | 266 | 57 | 290 | 54 | 314 | 51 | 338 | 48 | 362 | 47 | 386 | 44 | 410 | 40 | 434 | 34 | 458 | 29 | 482 | 16 |
| 9 | 242 | 99 | 266 | 97 | 290 | 94 | 314 | 91 | 338 | 88 | 362 | 87 | 386 | 84 | 410 | 80 | 434 | 74 | 458 | 69 | 482 | 56 |
| 10 | 243 | 39 | 267 | 37 | 291 | 34 | 315 | 31 | 339 | 28 | 363 | 27 | 387 | 24 | 411 | 20 | 435 | 14 | 459 | 08 | 482 | 96 |
| 11 | 243 | 79 | 267 | 77 | 291 | 74 | 315 | 71 | 339 | 68 | 363 | 67 | 387 | 64 | 411 | 60 | 435 | 54 | 459 | 48 | 483 | 36 |
| 12 | 244 | 19 | 268 | 17 | 292 | 14 | 316 | 11 | 340 | 08 | 364 | 07 | 388 | 04 | 411 | 99 | 435 | 94 | 459 | 88 | 483 | 75 |
| 13 | 244 | 59 | 268 | 57 | 292 | 54 | 316 | 51 | 340 | 48 | 364 | 47 | 388 | 44 | 412 | 39 | 436 | 34 | 460 | 28 | 484 | 15 |
| 14 | 244 | 99 | 268 | 97 | 292 | 94 | 316 | 91 | 340 | 88 | 364 | 87 | 388 | 84 | 412 | 79 | 436 | 74 | 460 | 68 | 484 | 54 |
| 15 | 245 | 39 | 269 | 37 | 293 | 34 | 317 | 31 | 341 | 28 | 365 | 27 | 389 | 23 | 413 | 19 | 437 | 13 | 461 | 07 | 484 | 94 |
| 16 | 245 | 79 | 269 | 77 | 293 | 74 | 317 | 71 | 341 | 68 | 365 | 67 | 389 | 63 | 413 | 59 | 437 | 53 | 461 | 47 | 485 | 33 |
| 17 | 246 | 19 | 270 | 17 | 294 | 14 | 318 | 11 | 342 | 08 | 366 | 07 | 390 | 03 | 413 | 99 | 437 | 93 | 461 | 87 | 485 | 73 |
| 18 | 246 | 59 | 270 | 57 | 294 | 54 | 318 | 51 | 342 | 48 | 366 | 47 | 390 | 43 | 414 | 39 | 438 | 33 | 462 | 27 | 486 | 13 |
| 19 | 246 | 99 | 270 | 97 | 294 | 94 | 318 | 91 | 342 | 88 | 366 | 87 | 390 | 83 | 414 | 79 | 438 | 73 | 462 | 67 | 486 | 53 |
| 20 | 247 | 39 | 271 | 36 | 295 | 33 | 319 | 30 | 343 | 28 | 367 | 26 | 391 | 23 | 415 | 19 | 439 | 13 | 463 | 06 | 486 | 92 |
| 21 | 247 | 79 | 271 | 76 | 295 | 73 | 319 | 70 | 343 | 68 | 367 | 66 | 391 | 63 | 415 | 59 | 439 | 53 | 463 | 46 | 487 | 32 |
| 22 | 248 | 19 | 272 | 16 | 296 | 13 | 320 | 10 | 344 | 08 | 368 | 06 | 392 | 03 | 415 | 99 | 439 | 93 | 463 | 86 | 487 | 72 |
| 23 | 248 | 59 | 272 | 56 | 296 | 53 | 320 | 50 | 344 | 48 | 368 | 46 | 392 | 43 | 416 | 39 | 440 | 33 | 464 | 26 | 488 | 12 |
| 24 | 248 | 99 | 272 | 96 | 296 | 93 | 320 | 90 | 344 | 88 | 368 | 86 | 392 | 83 | 416 | 78 | 440 | 73 | 464 | 66 | 488 | 51 |
| 25 | 249 | 39 | 273 | 36 | 297 | 33 | 321 | 30 | 345 | 28 | 369 | 26 | 393 | 23 | 417 | 18 | 441 | 13 | 465 | 05 | 488 | 91 |
| 26 | 249 | 79 | 273 | 76 | 297 | 73 | 321 | 70 | 345 | 68 | 369 | 66 | 393 | 63 | 417 | 58 | 441 | 53 | 465 | 45 | 489 | 31 |
| 27 | 250 | 19 | 274 | 16 | 298 | 13 | 322 | 10 | 346 | 08 | 370 | 06 | 394 | 03 | 417 | 98 | 441 | 93 | 465 | 85 | 489 | 71 |
| 28 | 250 | 59 | 274 | 56 | 298 | 53 | 322 | 50 | 346 | 48 | 370 | 46 | 394 | 43 | 418 | 38 | 442 | 33 | 466 | 25 | 490 | 10 |
| 29 | 250 | 99 | 274 | 96 | 298 | 93 | 322 | 90 | 346 | 88 | 370 | 86 | 394 | 83 | 418 | 78 | 442 | 73 | 466 | 65 | 490 | 50 |
| 30 | 251 | 38 | 275 | 36 | 299 | 33 | 323 | 30 | 347 | 28 | 371 | 26 | 395 | 22 | 419 | 18 | 443 | 12 | 467 | 04 | 490 | 89 |
| 31 | 251 | 78 | 275 | 76 | 299 | 73 | 323 | 70 | 347 | 68 | 371 | 66 | 395 | 62 | 419 | 58 | 443 | 52 | 467 | 44 | 491 | 29 |
| 32 | 252 | 18 | 276 | 16 | 300 | 13 | 324 | 10 | 348 | 08 | 372 | 06 | 396 | 02 | 419 | 98 | 443 | 92 | 467 | 84 | 491 | 68 |
| 33 | 252 | 58 | 276 | 56 | 300 | 53 | 324 | 50 | 348 | 48 | 372 | 46 | 395 | 42 | 420 | 38 | 444 | 32 | 468 | 24 | 492 | 08 |
| 34 | 252 | 98 | 276 | 96 | 300 | 93 | 324 | 90 | 348 | 88 | 372 | 86 | 395 | 82 | 420 | 78 | 444 | 72 | 468 | 64 | 492 | 48 |
| 35 | 253 | 38 | 277 | 36 | 301 | 33 | 325 | 30 | 349 | 28 | 373 | 26 | 397 | 22 | 421 | 18 | 445 | 12 | 469 | 03 | 492 | 88 |
| 36 | 253 | 78 | 277 | 76 | 301 | 73 | 325 | 70 | 349 | 68 | 373 | 66 | 397 | 62 | 421 | 57 | 445 | 52 | 469 | 43 | 493 | 27 |
| 37 | 254 | 18 | 278 | 16 | 302 | 13 | 326 | 10 | 350 | 08 | 374 | 06 | 398 | 02 | 421 | 97 | 445 | 92 | 469 | 83 | 493 | 67 |
| 38 | 254 | 58 | 278 | 56 | 302 | 53 | 326 | 50 | 350 | 48 | 374 | 46 | 398 | 42 | 422 | 37 | 446 | 32 | 470 | 23 | 494 | 07 |
| 39 | 254 | 98 | 278 | 96 | 302 | 93 | 326 | 90 | 350 | 88 | 374 | 86 | 398 | 82 | 422 | 77 | 446 | 72 | 470 | 63 | 494 | 47 |
| 40 | 255 | 38 | 279 | 35 | 303 | 32 | 327 | 30 | 351 | 27 | 375 | 25 | 399 | 22 | 423 | 17 | 447 | 12 | 471 | 02 | 494 | 86 |
| 41 | 255 | 78 | 279 | 75 | 303 | 72 | 327 | 69 | 351 | 67 | 375 | 65 | 399 | 62 | 423 | 57 | 447 | 52 | 471 | 42 | 495 | 26 |
| 42 | 256 | 18 | 280 | 15 | 304 | 12 | 328 | 09 | 352 | 07 | 376 | 05 | 400 | 02 | 423 | 97 | 447 | 92 | 471 | 82 | 495 | 66 |
| 43 | 256 | 58 | 280 | 55 | 304 | 52 | 328 | 49 | 352 | 47 | 376 | 45 | 400 | 42 | 424 | 37 | 448 | 32 | 472 | 22 | 496 | 06 |
| 44 | 256 | 98 | 280 | 95 | 304 | 92 | 328 | 89 | 352 | 87 | 376 | 85 | 400 | 82 | 424 | 77 | 448 | 72 | 472 | 62 | 496 | 45 |
| 45 | 257 | 38 | 281 | 35 | 305 | 32 | 329 | 29 | 353 | 27 | 377 | 25 | 401 | 21 | 425 | 17 | 449 | 12 | 473 | 01 | 496 | 85 |
| 46 | 257 | 78 | 281 | 75 | 305 | 72 | 329 | 69 | 353 | 67 | 377 | 65 | 401 | 61 | 425 | 57 | 449 | 51 | 473 | 41 | 497 | 24 |
| 47 | 258 | 18 | 282 | 15 | 306 | 12 | 330 | 09 | 354 | 07 | 378 | 05 | 402 | 01 | 425 | 97 | 449 | 91 | 473 | 81 | 497 | 64 |
| 48 | 258 | 58 | 282 | 55 | 306 | 52 | 330 | 49 | 354 | 47 | 378 | 45 | 402 | 41 | 426 | 36 | 450 | 31 | 474 | 21 | 498 | 03 |
| 49 | 258 | 98 | 282 | 95 | 306 | 92 | 330 | 89 | 354 | 87 | 378 | 85 | 402 | 81 | 426 | 76 | 450 | 71 | 474 | 61 | 498 | 43 |
| 50 | 259 | 38 | 283 | 35 | 307 | 32 | 331 | 29 | 355 | 27 | 379 | 25 | 403 | 21 | 427 | 16 | 451 | 11 | 475 | 00 | 498 | 83 |
| 51 | 259 | 78 | 283 | 75 | 307 | 72 | 331 | 69 | 355 | 67 | 379 | 65 | 403 | 61 | 427 | 56 | 451 | 51 | 475 | 40 | 499 | 23 |
| 52 | 260 | 18 | 284 | 15 | 308 | 12 | 332 | 09 | 356 | 07 | 380 | 05 | 404 | 01 | 427 | 96 | 451 | 91 | 475 | 80 | 499 | 62 |
| 53 | 260 | 58 | 284 | 55 | 308 | 52 | 332 | 49 | 356 | 47 | 380 | 45 | 404 | 41 | 428 | 36 | 452 | 31 | 476 | 20 | 500 | 02 |
| 54 | 260 | 98 | 284 | 95 | 308 | 92 | 332 | 89 | 356 | 87 | 380 | 85 | 404 | 81 | 428 | 76 | 452 | 71 | 476 | 60 | 500 | 42 |
| 55 | 261 | 38 | 285 | 35 | 309 | 32 | 333 | 29 | 357 | 27 | 381 | 25 | 405 | 21 | 429 | 16 | 453 | 11 | 476 | 99 | 500 | 82 |
| 56 | 261 | 78 | 285 | 75 | 309 | 72 | 333 | 69 | 357 | 67 | 381 | 65 | 405 | 61 | 429 | 56 | 453 | 51 | 477 | 39 | 501 | 21 |
| 57 | 262 | 18 | 286 | 15 | 310 | 12 | 334 | 09 | 358 | 07 | 382 | 05 | 406 | 01 | 429 | 96 | 453 | 91 | 477 | 79 | 501 | 61 |
| 58 | 262 | 58 | 286 | 55 | 310 | 52 | 334 | 49 | 358 | 47 | 382 | 45 | 406 | 41 | 430 | 36 | 454 | 31 | 478 | 19 | 502 | 01 |
| 59 | 262 | 98 | 286 | 95 | 310 | 92 | 334 | 89 | 358 | 87 | 382 | 85 | 406 | 81 | 430 | 76 | 454 | 71 | 478 | 59 | 502 | 41 |
| 60 | 263 | 37 | 287 | 35 | 311 | 31 | 335 | 28 | 359 | 27 | 383 | 24 | 407 | 20 | 431 | 15 | 455 | 10 | 478 | 98 | 502 | 81 |

**TABULA** pro converſione Revolutionum Cochleæ, &c. in gradus, minuta, &c. Circuli.

| ′ | Gr. 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | | 49 | | 50 | | 51 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent | Revol. | Cent |
| 0 | 1005 | 77 | 1029 | 72 | 1053 | 67 | 1077 | 64 | 1101 | 56 | 1125 | 48 | 1149 | 45 | 1173 | 35 | 1197 | 33 | 1221 | 27 |
| 1 | 1006 | 17 | 1030 | 12 | 1054 | 07 | 1078 | 04 | 1101 | 96 | 1125 | 88 | 1149 | 84 | 1173 | 75 | 1197 | 73 | 1221 | 67 |
| 2 | 1006 | 57 | 1030 | 52 | 1054 | 47 | 1078 | 44 | 1102 | 36 | 1126 | 28 | 1150 | 24 | 1174 | 15 | 1198 | 13 | 1222 | 07 |
| 3 | 1006 | 97 | 1030 | 92 | 1054 | 87 | 1078 | 84 | 1102 | 76 | 1126 | 68 | 1150 | 64 | 1174 | 55 | 1198 | 53 | 1222 | 47 |
| 4 | 1007 | 37 | 1031 | 32 | 1055 | 27 | 1079 | 24 | 1103 | 16 | 1127 | 08 | 1151 | 04 | 1174 | 95 | 1198 | 93 | 1222 | 87 |
| 5 | 1007 | 77 | 1031 | 72 | 1055 | 67 | 1079 | 64 | 1103 | 56 | 1127 | 48 | 1151 | 44 | 1175 | 35 | 1199 | 33 | 1223 | 27 |
| 6 | 1008 | 17 | 1132 | 12 | 1056 | 07 | 1080 | 04 | 1103 | 96 | 1127 | 88 | 1151 | 84 | 1175 | 75 | 1199 | 73 | 1223 | 67 |
| 7 | 1008 | 57 | 1032 | 52 | 1056 | 47 | 1080 | 44 | 1104 | 36 | 1128 | 28 | 1152 | 23 | 1176 | 15 | 1200 | 13 | 1224 | 07 |
| 8 | 1008 | 97 | 1032 | 92 | 1056 | 87 | 1080 | 84 | 1104 | 75 | 1128 | 68 | 1152 | 63 | 1176 | 55 | 1200 | 53 | 1224 | 46 |
| 9 | 1009 | 37 | 1033 | 32 | 1057 | 27 | 1081 | 24 | 1105 | 15 | 1129 | 08 | 1153 | 03 | 1176 | 95 | 1200 | 93 | 1224 | 86 |
| 10 | 1009 | 77 | 1033 | 72 | 1057 | 67 | 1081 | 64 | 1105 | 55 | 1129 | 48 | 1153 | 43 | 1177 | 35 | 1201 | 32 | 1225 | 26 |
| 11 | 1010 | 17 | 1034 | 12 | 1058 | 07 | 1082 | 03 | 1105 | 95 | 1129 | 88 | 1153 | 83 | 1177 | 75 | 1201 | 72 | 1225 | 66 |
| 12 | 1010 | 56 | 1034 | 51 | 1058 | 47 | 1082 | 43 | 1106 | 35 | 1130 | 28 | 1154 | 23 | 1178 | 15 | 1202 | 12 | 1226 | 06 |
| 13 | 1010 | 96 | 1034 | 91 | 1058 | 87 | 1082 | 83 | 1106 | 75 | 1130 | 68 | 1154 | 63 | 1178 | 55 | 1202 | 52 | 1226 | 46 |
| 14 | 1011 | 36 | 1035 | 31 | 1059 | 27 | 1083 | 23 | 1107 | 15 | 1131 | 08 | 1155 | 02 | 1178 | 95 | 1202 | 92 | 1226 | 86 |
| 15 | 1011 | 76 | 1035 | 71 | 1059 | 67 | 1083 | 63 | 1107 | 54 | 1131 | 47 | 1155 | 42 | 1179 | 35 | 1203 | 31 | 1227 | 26 |
| 16 | 1012 | 16 | 1036 | 11 | 1060 | 07 | 1084 | 02 | 1107 | 94 | 1131 | 87 | 1155 | 82 | 1179 | 75 | 1203 | 72 | 1227 | 66 |
| 17 | 1012 | 56 | 1036 | 51 | 1060 | 47 | 1084 | 42 | 1108 | 34 | 1132 | 27 | 1156 | 22 | 1180 | 15 | 1204 | 12 | 1228 | 06 |
| 18 | 1012 | 96 | 1036 | 91 | 1060 | 87 | 1084 | 82 | 1108 | 74 | 1132 | 67 | 1156 | 62 | 1180 | 55 | 1204 | 52 | 1228 | 46 |
| 19 | 1013 | 36 | 1037 | 31 | 1061 | 27 | 1085 | 22 | 1109 | 14 | 1133 | 07 | 1157 | 02 | 1180 | 95 | 1204 | 92 | 1228 | 86 |
| 20 | 1013 | 76 | 1037 | 71 | 1061 | 66 | 1085 | 62 | 1109 | 54 | 1133 | 47 | 1157 | 41 | 1181 | 35 | 1205 | 31 | 1229 | 26 |
| 21 | 1014 | 16 | 1038 | 10 | 1062 | 06 | 1086 | 02 | 1109 | 94 | 1133 | 87 | 1157 | 81 | 1181 | 75 | 1205 | 71 | 1229 | 66 |
| 22 | 1014 | 56 | 1038 | 50 | 1062 | 46 | 1086 | 42 | 1110 | 34 | 1134 | 27 | 1158 | 21 | 1182 | 15 | 1206 | 11 | 1230 | 06 |
| 23 | 1014 | 96 | 1038 | 90 | 1062 | 86 | 1086 | 82 | 1110 | 73 | 1134 | 67 | 1158 | 61 | 1182 | 55 | 1206 | 51 | 1230 | 45 |
| 24 | 1015 | 36 | 1039 | 30 | 1063 | 26 | 1087 | 21 | 1111 | 13 | 1135 | 07 | 1159 | 01 | 1182 | 95 | 1206 | 91 | 1230 | 85 |
| 25 | 1015 | 75 | 1039 | 71 | 1063 | 66 | 1087 | 61 | 1111 | 53 | 1135 | 47 | 1159 | 41 | 1183 | 35 | 1207 | 31 | 1231 | 25 |
| 26 | 1016 | 15 | 1040 | 10 | 1064 | 06 | 1088 | 01 | 1111 | 93 | 1135 | 87 | 1159 | 81 | 1183 | 75 | 1207 | 71 | 1231 | 65 |
| 27 | 1016 | 55 | 1040 | 50 | 1064 | 46 | 1088 | 41 | 1112 | 33 | 1136 | 27 | 1160 | 20 | 1184 | 15 | 1208 | 11 | 1232 | 05 |
| 28 | 1016 | 95 | 1040 | 90 | 1064 | 86 | 1088 | 81 | 1112 | 73 | 1136 | 67 | 1160 | 60 | 1184 | 55 | 1208 | 51 | 1232 | 45 |
| 29 | 1017 | 35 | 1041 | 30 | 1065 | 26 | 1089 | 21 | 1113 | 13 | 1137 | 07 | 1161 | 00 | 1184 | 95 | 1208 | 91 | 1232 | 85 |
| 30 | 1017 | 75 | 1041 | 70 | 1065 | 66 | 1089 | 61 | 1113 | 52 | 1137 | 46 | 1161 | 40 | 1185 | 34 | 1209 | 30 | 1233 | 24 |
| 31 | 1018 | 15 | 1042 | 10 | 1066 | 06 | 1090 | 00 | 1113 | 92 | 1137 | 86 | 1161 | 80 | 1185 | 74 | 1209 | 70 | 1233 | 64 |
| 32 | 1018 | 55 | 1042 | 50 | 1066 | 46 | 1090 | 40 | 1114 | 32 | 1138 | 26 | 1162 | 20 | 1186 | 14 | 1210 | 10 | 1234 | 04 |
| 33 | 1018 | 95 | 1042 | 90 | 1066 | 86 | 1090 | 80 | 1114 | 72 | 1138 | 66 | 1162 | 60 | 1186 | 54 | 1210 | 50 | 1234 | 44 |
| 34 | 1019 | 35 | 1043 | 30 | 1067 | 26 | 1091 | 20 | 1115 | 12 | 1139 | 06 | 1163 | 00 | 1186 | 94 | 1210 | 90 | 1234 | 84 |
| 35 | 1019 | 75 | 1043 | 70 | 1067 | 66 | 1091 | 60 | 1115 | 52 | 1139 | 46 | 1163 | 40 | 1187 | 34 | 1211 | 30 | 1235 | 24 |
| 36 | 1020 | 14 | 1044 | 09 | 1068 | 06 | 1092 | 00 | 1115 | 92 | 1139 | 86 | 1163 | 79 | 1187 | 74 | 1211 | 70 | 1235 | 64 |
| 37 | 1020 | 54 | 1044 | 49 | 1068 | 46 | 1092 | 40 | 1116 | 32 | 1140 | 26 | 1164 | 19 | 1188 | 14 | 1212 | 10 | 1236 | 03 |
| 38 | 1020 | 94 | 1044 | 89 | 1068 | 86 | 1092 | 80 | 1116 | 71 | 1140 | 66 | 1164 | 59 | 1188 | 54 | 1212 | 50 | 1236 | 43 |
| 39 | 1021 | 34 | 1045 | 29 | 1069 | 26 | 1093 | 20 | 1117 | 11 | 1141 | 06 | 1164 | 99 | 1188 | 94 | 1212 | 90 | 1236 | 83 |
| 40 | 1021 | 74 | 1045 | 69 | 1069 | 65 | 1093 | 60 | 1117 | 51 | 1141 | 46 | 1165 | 38 | 1189 | 34 | 1213 | 29 | 1237 | 23 |
| 41 | 1022 | 14 | 1046 | 09 | 1070 | 05 | 1093 | 99 | 1117 | 91 | 1141 | 86 | 1165 | 78 | 1189 | 74 | 1213 | 69 | 1237 | 63 |
| 42 | 1022 | 54 | 1046 | 49 | 1070 | 45 | 1094 | 39 | 1118 | 31 | 1142 | 26 | 1166 | 18 | 1190 | 14 | 1214 | 09 | 1238 | 02 |
| 43 | 1022 | 94 | 1046 | 89 | 1070 | 85 | 1094 | 79 | 1118 | 71 | 1142 | 66 | 1166 | 58 | 1190 | 54 | 1214 | 49 | 1238 | 42 |
| 44 | 1023 | 34 | 1047 | 29 | 1071 | 25 | 1095 | 19 | 1119 | 11 | 1143 | 06 | 1166 | 98 | 1190 | 94 | 1214 | 89 | 1238 | 82 |
| 45 | 1023 | 74 | 1047 | 69 | 1071 | 65 | 1095 | 59 | 1119 | 50 | 1143 | 46 | 1167 | 38 | 1191 | 34 | 1215 | 29 | 1239 | 22 |
| 46 | 1024 | 14 | 1048 | 09 | 1072 | 05 | 1095 | 98 | 1119 | 90 | 1143 | 85 | 1167 | 78 | 1191 | 74 | 1215 | 69 | 1239 | 62 |
| 47 | 1024 | 54 | 1048 | 49 | 1072 | 45 | 1096 | 38 | 1120 | 30 | 1144 | 25 | 1168 | 18 | 1192 | 14 | 1216 | 09 | 1240 | 02 |
| 48 | 1024 | 94 | 1048 | 88 | 1072 | 85 | 1096 | 78 | 1120 | 70 | 1144 | 65 | 1168 | 58 | 1192 | 54 | 1216 | 49 | 1240 | 41 |
| 49 | 1025 | 33 | 1049 | 28 | 1073 | 25 | 1097 | 18 | 1121 | 10 | 1145 | 05 | 1168 | 98 | 1192 | 94 | 1216 | 89 | 1240 | 81 |
| 50 | 1025 | 73 | 1049 | 68 | 1073 | 65 | 1097 | 58 | 1121 | 50 | 1145 | 45 | 1169 | 37 | 1193 | 34 | 1217 | 28 | 1241 | 21 |
| 51 | 1026 | 13 | 1050 | 08 | 1074 | 05 | 1097 | 98 | 1121 | 90 | 1145 | 85 | 1169 | 77 | 1193 | 74 | 1217 | 68 | 1241 | 60 |
| 52 | 1026 | 53 | 1050 | 48 | 1074 | 45 | 1098 | 38 | 1122 | 30 | 1146 | 25 | 1170 | 17 | 1194 | 14 | 1218 | 08 | 1242 | 00 |
| 53 | 1026 | 93 | 1050 | 88 | 1074 | 85 | 1098 | 78 | 1122 | 69 | 1146 | 65 | 1170 | 57 | 1194 | 54 | 1218 | 48 | 1242 | 40 |
| 54 | 1027 | 33 | 1051 | 28 | 1075 | 25 | 1099 | 18 | 1123 | 09 | 1147 | 05 | 1170 | 97 | 1194 | 94 | 1218 | 88 | 1242 | 80 |
| 55 | 1027 | 73 | 1051 | 68 | 1075 | 65 | 1099 | 58 | 1123 | 49 | 1147 | 45 | 1171 | 36 | 1195 | 34 | 1219 | 28 | 1243 | 20 |
| 56 | 1028 | 13 | 1052 | 08 | 1076 | 05 | 1099 | 97 | 1123 | 89 | 1147 | 85 | 1171 | 76 | 1195 | 74 | 1219 | 68 | 1243 | 60 |
| 57 | 1028 | 53 | 1052 | 48 | 1076 | 45 | 1100 | 37 | 1124 | 29 | 1148 | 25 | 1172 | 16 | 1196 | 14 | 1220 | 08 | 1244 | 00 |
| 58 | 1028 | 93 | 1052 | 88 | 1076 | 85 | 1100 | 77 | 1124 | 69 | 1148 | 65 | 1172 | 56 | 1196 | 54 | 1220 | 48 | 1244 | 40 |
| 59 | 1029 | 33 | 1053 | 28 | 1077 | 25 | 1101 | 17 | 1125 | 09 | 1149 | 05 | 1172 | 96 | 1196 | 94 | 1220 | 88 | 1244 | 80 |
| 60 | 1029 | 72 | 1053 | 68 | 1077 | 65 | 1101 | 56 | 1125 | 48 | 1149 | 44 | 1173 | 35 | 1197 | 33 | 1221 | 27 | 1245 | 19 |

TABULA pro converſione Revolutionum Cochleæ, &c. in gradus, minuta, &c. Circuli.

| | Gr. 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 |
|---|---|---|---|---|---|---|---|---|---|---|
| ′ | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent | Revol. Cent |
| 0 | 1245 19 | 1269 17 | 1293 17 | 1317 16 | 1341 16 | 1365 18 | 1389 19 | 1413 19 | 1437 20 | 1461 20 |
| 1 | 1245 59 | 1269 57 | 1293 57 | 1317 56 | 1341 56 | 1365 58 | 1389 59 | 1413 59 | 1437 60 | 1461 60 |
| 2 | 1245 99 | 1269 97 | 1293 97 | 1317 96 | 1341 96 | 1365 98 | 1389 99 | 1413 99 | 1438 00 | 1462 00 |
| 3 | 1246 39 | 1270 37 | 1294 37 | 1318 36 | 1342 36 | 1366 38 | 1390 39 | 1414 39 | 1438 40 | 1462 40 |
| 4 | 1246 79 | 1270 77 | 1294 77 | 1318 76 | 1342 76 | 1366 78 | 1390 79 | 1414 79 | 1438 80 | 1462 80 |
| 5 | 1247 19 | 1271 17 | 1295 17 | 1319 16 | 1343 16 | 1367 18 | 1391 19 | 1415 19 | 1439 20 | 1463 20 |
| 6 | 1247 59 | 1271 57 | 1295 57 | 1319 56 | 1343 56 | 1367 58 | 1391 59 | 1415 59 | 1439 60 | |
| 7 | 1247 99 | 1271 97 | 1295 97 | 1319 96 | 1343 96 | 1367 98 | 1391 99 | 1415 99 | 1440 00 | |
| 8 | 1248 39 | 1272 37 | 1296 37 | 1320 36 | 1344 36 | 1368 38 | 1392 39 | 1416 39 | 1440 40 | |
| 9 | 1248 79 | 1272 77 | 1296 77 | 1320 76 | 1344 76 | 1368 78 | 1392 79 | 1416 79 | 1440 80 | |
| 10 | 1249 19 | 1273 17 | 1297 17 | 1321 16 | 1345 16 | 1369 18 | 1393 19 | 1417 19 | 1441 20 | |
| 11 | 1249 59 | 1273 57 | 1297 57 | 1321 56 | 1345 56 | 1369 58 | 1393 59 | 1417 59 | 1441 60 | |
| 12 | 1259 99 | 1273 97 | 1297 97 | 1321 96 | 1345 96 | 1369 98 | 1393 99 | 1417 99 | 1442 00 | |
| 13 | 1250 39 | 1274 37 | 1298 37 | 1322 36 | 1346 36 | 1370 38 | 1394 39 | 1418 39 | 1442 40 | |
| 14 | 1250 79 | 1274 77 | 1298 77 | 1322 76 | 1346 76 | 1370 78 | 1394 79 | 1418 79 | 1442 80 | |
| 15 | 1251 19 | 1275 17 | 1299 17 | 1323 16 | 1347 16 | 1371 18 | 1395 19 | 1419 19 | 1443 20 | |
| 16 | 1251 59 | 1275 57 | 1299 57 | 1323 56 | 1347 56 | 1371 58 | 1395 59 | 1419 59 | 1443 60 | |
| 17 | 1251 99 | 1275 97 | 1299 97 | 1323 96 | 1347 96 | 1371 98 | 1395 99 | 1419 99 | 1444 00 | |
| 18 | 1252 39 | 1276 37 | 1300 37 | 1324 36 | 1348 36 | 1372 38 | 1396 39 | 1420 39 | 1444 40 | |
| 19 | 1252 79 | 1276 77 | 1300 77 | 1324 76 | 1348 76 | 1372 78 | 1396 79 | 1420 79 | 1444 80 | |
| 20 | 1253 19 | 1277 17 | 1301 17 | 1325 16 | 1349 16 | 1373 18 | 1397 19 | 1421 19 | 1445 20 | |
| 21 | 1253 59 | 1277 57 | 1301 57 | 1325 56 | 1349 56 | 1373 58 | 1397 59 | 1421 59 | 1445 60 | |
| 22 | 1253 99 | 1277 97 | 1301 97 | 1325 96 | 1349 96 | 1373 98 | 1397 99 | 1421 99 | 1446 00 | |
| 23 | 1254 39 | 1278 37 | 1302 37 | 1326 36 | 1350 36 | 1374 38 | 1398 39 | 1422 39 | 1446 40 | |
| 24 | 1254 79 | 1278 77 | 1302 77 | 1326 76 | 1350 76 | 1374 78 | 1398 79 | 1422 79 | 1446 80 | |
| 25 | 1255 19 | 1279 17 | 1303 17 | 1327 16 | 1351 16 | 1375 18 | 1399 19 | 1423 19 | 1447 20 | |
| 26 | 1255 59 | 1279 57 | 1303 57 | 1327 56 | 1351 56 | 1375 58 | 1399 59 | 1423 59 | 1447 60 | |
| 27 | 1255 99 | 1279 97 | 1303 97 | 1327 96 | 1351 96 | 1375 98 | 1399 99 | 1423 99 | 1448 00 | |
| 28 | 1256 39 | 1280 37 | 1304 37 | 1328 36 | 1352 36 | 1376 38 | 1400 39 | 1424 39 | 1448 40 | |
| 29 | 1256 79 | 1280 77 | 1304 77 | 1328 76 | 1352 76 | 1376 78 | 1400 79 | 1424 79 | 1448 80 | |
| 30 | 1257 18 | 1281 17 | 1305 17 | 1329 16 | 1353 16 | 1377 18 | 1401 19 | 1425 19 | 1449 20 | |
| 31 | 1257 58 | 1281 57 | 1305 57 | 1329 56 | 1353 56 | 1377 58 | 1401 59 | 1425 59 | 1449 60 | |
| 32 | 1257 98 | 1281 97 | 1305 97 | 1329 96 | 1353 96 | 1377 98 | 1401 99 | 1425 99 | 1450 00 | |
| 33 | 1258 38 | 1282 37 | 1306 37 | 1330 36 | 1354 36 | 1378 38 | 1402 39 | 1426 39 | 1450 40 | |
| 34 | 1258 78 | 1282 77 | 1306 77 | 1330 76 | 1354 76 | 1378 78 | 1402 79 | 1426 79 | 1450 80 | |
| 35 | 1259 18 | 1283 17 | 1307 17 | 1331 16 | 1355 16 | 1379 18 | 1403 19 | 1427 19 | 1451 20 | |
| 36 | 1259 58 | 1283 57 | 1307 57 | 1331 56 | 1355 56 | 1379 58 | 1403 59 | 1427 59 | 1451 60 | |
| 37 | 1259 98 | 1283 97 | 1307 97 | 1331 96 | 1355 96 | 1279 98 | 1403 99 | 1427 99 | 1452 00 | |
| 38 | 1260 38 | 1284 37 | 1308 37 | 1332 36 | 1356 36 | 1380 38 | 1404 39 | 1428 40 | 1452 40 | |
| 39 | 1260 78 | 1284 77 | 1308 77 | 1332 76 | 1356 76 | 1380 78 | 1404 79 | 1428 80 | 1452 80 | |
| 40 | 1261 18 | 1285 17 | 1309 17 | 1333 16 | 1357 16 | 1381 18 | 1405 19 | 1429 20 | 1453 20 | |
| 41 | 1261 58 | 1285 57 | 1309 57 | 1333 56 | 1357 56 | 1381 58 | 1405 59 | 1429 60 | 1453 60 | |
| 42 | 1261 98 | 1285 97 | 1309 97 | 1333 96 | 1357 96 | 1381 98 | 1405 99 | 1430 00 | 1454 00 | |
| 43 | 1262 38 | 1286 37 | 1310 37 | 1334 36 | 1358 36 | 1382 38 | 1406 39 | 1430 40 | 1454 40 | |
| 44 | 1262 78 | 1286 77 | 1310 77 | 1334 76 | 1358 76 | 1382 78 | 1406 79 | 1430 80 | 1454 80 | |
| 45 | 1263 18 | 1287 17 | 1311 16 | 1335 16 | 1359 16 | 1383 18 | 1407 19 | 1431 20 | 1455 20 | |
| 46 | 1263 58 | 1287 57 | 1311 56 | 1335 56 | 1359 56 | 1383 58 | 1407 59 | 1431 60 | 1455 60 | |
| 47 | 1263 98 | 1287 97 | 1311 96 | 1335 96 | 1359 97 | 1383 98 | 1407 99 | 1432 00 | 1456 00 | |
| 48 | 1264 38 | 1288 37 | 1312 36 | 1336 36 | 1360 37 | 1384 38 | 1408 39 | 1432 40 | 1456 40 | |
| 49 | 1264 78 | 1288 77 | 1312 76 | 1336 76 | 1360 77 | 1384 78 | 1408 79 | 1432 80 | 1456 80 | |
| 50 | 1265 18 | 1289 17 | 313 16 | 1337 16 | 1361 17 | 1385 18 | 1409 19 | 1433 20 | 1457 20 | |
| 51 | 1265 58 | 1289 57 | 1313 56 | 1337 56 | 1361 57 | 1385 58 | 1409 59 | 1433 60 | 1457 60 | |
| 52 | 1265 98 | 1289 97 | 1313 96 | 1337 96 | 1361 97 | 1385 98 | 1409 99 | 1434 00 | 1458 00 | |
| 53 | 1266 38 | 1290 37 | 1314 36 | 1338 36 | 1362 37 | 1386 38 | 1410 39 | 1434 40 | 1458 40 | |
| 54 | 1266 78 | 1290 77 | 1314 76 | 1338 76 | 1362 77 | 1386 78 | 1410 79 | 1434 80 | 1458 80 | |
| 55 | 1267 18 | 1291 17 | 1315 16 | 1339 16 | 1363 17 | 1387 18 | 1411 19 | 1435 20 | 1459 20 | |
| 56 | 1267 58 | 1291 57 | 1315 56 | 1339 56 | 1363 57 | 1387 58 | 1411 59 | 1435 60 | 1459 60 | |
| 57 | 1267 98 | 1291 97 | 1315 96 | 1339 96 | 1363 97 | 1387 98 | 1411 99 | 1436 00 | 1460 00 | |
| 58 | 1268 38 | 1292 37 | 1316 36 | 1340 36 | 1364 37 | 1388 38 | 1412 39 | 1436 40 | 1460 40 | |
| 59 | 1268 78 | 1292 77 | 1316 76 | 1340 76 | 1364 77 | 1388 78 | 1412 79 | 1436 80 | 1460 80 | |
| 60 | 1269 17 | 1293 17 | 1317 16 | 1341 16 | 1365 18 | 1389 18 | 1413 19 | 1437 20 | 1461 20 | |

Præcedens TABULA oſtendit quot Revolutiones Cochleæ, & partes Revolutionum centeſimæ cuilibet Minuto in Sextantis Arcu reſpondent; unico quamobrem Exemplo ejus Uſum explicare ſatis erit.

Anno 1678, Decemb. 2^d 15^h 29′, Sextante obſervata erat Diſtantia *Saturni* a *Polluce* 29° 17′ 50″, per Cochleæ Revolutiones 701 55, debentur autem Gradibus 29° 18′, per Tabulam 701 43, quæ ab obſervatis 701 55 deducta relinquunt ſolummodo partes 12=18″, ſic diſtantiæ Arcus per Cochleam erit 29° 18′ 18″, ſat bene diſtantiæ per lineas limbi tranſverſales menſuratæ conveniens.

Refractionum TABULA à præcedentibus Obſervationibus deducta & compoſita ab *J. F.* 1698.

| *Diſt. a Vert.* | *Refrac.* | | *Diſt. a Vert.* | *Refrac.* | |
|---|---|---|---|---|---|
| gr. | ′ | ″ | gr. | ′ | ″ |
| 90 | 33 | 00 | 65 | 1 | 45 |
| 89½ | 26 | 38 | 64 | 1 | 40 |
| 89 | 23 | 22 | 63 | 1 | 36 |
| 88½ | 20 | 17 | 62 | 1 | 31 |
| 88 | 17 | 26 | 61 | 1 | 27 |
| 87½ | 15 | 15 | 60 | 1 | 23 |
| 87 | 13 | 23 | 59 | 1 | 20 |
| 86½ | 11 | 53 | 58 | 1 | 17 |
| 86 | 10 | 39 | 57 | 1 | 14 |
| 85½ | 9 | 38 | 56 | 1 | 11 |
| 85 | 8 | 48 | 55 | 1 | 09 |
| 84 | 7 | 26 | 54 | 1 | 07 |
| 83 | 6 | 25 | 53 | 1 | 05 |
| 82 | 5 | 37 | 52 | 1 | 02 |
| 81 | 5 | 02 | 51 | 1 | 00 |
| 80 | 4 | 33 | 50 | 0 | 58 |
| 79 | 4 | 06 | 49 | 0 | 56 |
| 78 | 3 | 45 | 48 | 0 | 54 |
| 77 | 3 | 29 | 47 | 0 | 52 |
| 76 | 3 | 13 | 46 | 0 | 50 |
| 75 | 3 | 00 | 45 | 0 | 48 |
| 74 | 2 | 48 | 44 | 0 | 46 |
| 73 | 2 | 38 | 43 | 0 | 45 |
| 72 | 2 | 29 | 42 | 0 | 44 |
| 71 | 2 | 21 | 41 | 0 | 42 |
| 70 | 2 | 14 | 40 | 0 | 40 |
| 69 | 2 | 07 | 35 | 0 | 34 |
| 68 | 2 | 01 | 30 | 0 | 29 |
| 67 | 1 | 55 | 20 | 0 | 19 |
| 66 | 1 | 50 | 10 | 0 | 09 |
| 65 | 1 | 45 | 00 | 0 | 00 |

*Finis hujus Voluminis.*

# PLANETARUM LOCA

A Præcedentibus

# SEXTANTE

HABITIS

# OBSERVATIONIBUS

SUPPUTATA.

# SATURNI LOCA

## Ab Obſervatis ejus Sextante, a fixis Diſtantiis,

## Ab Anno 1676 ad 1689, completum,

Calculo eruta, per *Jo. Wittium* & *Ab. Sharpium*, Anno 1705.

| MDCLXXVI. Menſ. Die. Styl. Vet. | Temp. Ap. h m | SATURNI à FIXIS. | | Diſtantiæ Obſervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo. ♄ s ° ′ ″ | Latitudo. ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|---|
| Nov. 6 | 10 21 | ♄ à ſecunda Arietis | δ | 25 02 00 | 25 02 20 | ♉ 22 03 33 | 2 25 39 | A | S |
| | | à Tauri | ζ | 28 10 00 | 28 10 20 | 22 03 26 | 2 25 42 | | W |
| ☍ ☉ | | à Capella | | 35 18 50 | 35 19 10 | | | | |
| MDCLXXVII. | | | | | | | | | |
| Aug. 16 | 13 32 | ♄ à Nodo lini Piſcium | | 44 48 20 | 44 49 00 | ♊ 9 20 50 | 1 51 58 | A | S |
| □ ☉ | | à Pede Bor. Aurigæ | | 12 35 10 | 12 35 20 | 9 20 45 | 1 51 39 | | W |
| Sept. 17 | 11 33 | ♄ à Nodo lini Piſcium | | 45 19 00 | 45 19 40 | ♊ 9 52 47 | 1 55 28 | A | S |
| | | à Lucidâ Pede Perſei | | 34 04 45 | 34 05 35 | | | | |
| Nov. 7 | 9 10 | ♄ à clara lino Piſcium | η | 45 27 40 | 45 28 20 | ♊ 7 14 51 | 1 58 52 | A | S |
| | | à Capella | | 26 43 20 | 26 43 45 | 7 14 53 | 1 59 12 | | W |
| Nov. 14 | 10 33 | ♄ à lucida Arietis | α | 35 25 50 | 35 26 20 | ♊ 6 40 11 | | | |
| | | à Pede Aurigæ Bor. | ι | 13 32 20 | 13 32 20 | | 1 58 44 | A | S |
| | | à calce Caſtoris | μ | 24 08 40 | 24 09 10 | ♊ 6 40 00 | | | |
| Nov. 19 | 9 44 | ♄ à lucida Arietis | α | 35 02 30 | 35 03 00 | ♊ 6 15 15 | 1 58 34 | A | S |
| ☍ ☉ | | à Pede Aurigæ | ι | 13 42 20 | 13 42 30 | | | | |
| Dec. 14 | 10 23 | ♄ à lucida Arietis | α | 33 14 30 | 33 15 00 | ♊ 4 21 00 | 1 54 47 | A | S |
| | | ab Aurigæ | | 14 33 50 | 14 34 05 | | | | |
| MDCLXXVIII. | | | | | | | | | |
| April. 11 | 8 24 | ♄ à ſeq. humero Orionis | α | 21 38 00 | 21 38 20 | ♊ 8 04 06 | 1 26 58 | A | I F. |
| | | à cornu Tauri Boreo | | 12 05 10 | 12 05 20 | | | | |
| Sept. 28 | 16 09 | ♄ a prima Arietis | γ | 55 57 00 | 55 57 50 | | | | |
| | | a Palilicio | | 19 13 00 | 19 13 20 | | | | S |
| | | a Procyone | | 30 30 30 | 30 31 00 | ♊ 24 07 20 | 1 25 46 | A | W |
| | | a Regulo | | 61 15 00 | 61 16 00 | | | | |
| Dec. 2 | 15 38 | ♄ a Polluce | | 29 18 00 | 29 18 30 | ♊ 20 32 54 | 1 24 25 | A | S |
| | | a Procyone | | 33 39 20 | 33 39 50 | 20 32 49 | 1 24 35 | | W |
| ☍ ☉ | | ab Orionis | α | 15 06 40 | 15 07 00 | | | | |
| Dec. 6 | 15 06 | ♄ a Palilicio | | 15 28 30 | 15 29 00 | | | | |
| | | a Polluce | | 29 36 00 | 29 36 30 | ♊ 20 15 31 | 1 24 08 | A | S |
| | | a Capellâ | | 24 25 20 | 24 25 40 | 20 15 14 | 1 24 23 | | W |
| MDCLXXIX. | | | | | | | | | |
| Feb. 11 | 7 00 | ♄ a Polluce | | 32 30 25 | 32 30 55 | ♊ 17 10 07 | 1 11 29 | A | S |
| | | a ſeq. Hum. Orionis | | 16 26 25 | 16 26 40 | | | | |
| Julii 27 | 15 10 | ♄ a calce Caſtoris | | 2 58 40 | 2 58 40 | | | | |
| | | a Palilicio | | 28 48 20 | 28 48 50 | ♋ 3 48 19 | 0 49 10 | A | S |
| | | a Capellâ | | 28 34 00 | 28 34 30 | 3 48 08 | 0 49 20 | | W |
| Aug. 10 | 15 40 | ♄ a Palilicio | | 30 13 45 | 30 14 15 | | | | |
| | | ab Auriga | β | 24 15 25 | 24 15 50 | ♋ 5 14 08 | 0 49 40 | A | S |
| | | a calce Caſtoris | μ | 4 24 50 | 4 24 54 | 5 14 03 | 0 49 42 | | W |
| 31 | 16 10 | ♄ a Palilicio | | 31 57 20 | 31 57 50 | ♋ 6 59 10 | 0 49 49 | A | S |
| | | ab Aurigæ | β | 24 58 50 | 24 59 10 | 6 59 10 | 0 49 31 | | W |

| MDCLXXIX. Menſ. Styl. | Die. Vet. | Temp. Ap. h m | SATURNI a FIXIS. | | Diſtantia Obſervata ° ′ ″ | Correcta per Refr. ° ′ ″ | Longitudo ♄ ° ′ ″ | Latitudo ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Oct. | 19 | 14 27 | ♄ a Palilicio | | 33 15 30 | 33 16 00 | ♋ 8 18 22 | 00 49 30 | A | S |
| | | | ab Oculo Tauri Boreo | ε | 34 20 50 | 34 21 20 | 8 18 52 | 00 48 43 | | W |
| | | | ab Aurigæ | β | 25 35 00 | 25 35 25 | | | | |
| Dec. | 2 | 10 17 | ♄ a Palilicio | | 30 59 10 | 30 59 40 | | | | |
| | | | ab Hum. ſeq. Aurigæ | | 24 32 00 | 24 32 20 | ♋ 6 00 07 | 00 47 50 | A | W |
| | 10 | 9 56 | ♄ a Palilicio | | 30 21 00 | 30 21 30 | | | | |
| | | | ab Oculo Tauri Boreo | ε | 31 24 25 | 31 25 10 | ♋ 5 21 18 | 00 47 25 | A | S |
| | | | ab Aurigæ | β | 24 15 45 | 24 16 05 | 5 20 49 | 00 47 03 | | W |
| | | | a Polluce | | 15 20 20 | 15 20 35 | | | | |
| ☍ | ☉ | | a calce Caſtoris | μ | 4 31 25 | 4 31 30 | | | | |
| Dec. | 18 | 16 20 | ♄ a Regulo | | 50 42 50 | 50 43 40 | | | | |
| | | | a Leonis | ο | 45 10 00 | | | | | |
| | | | ab Aurigæ | β | 23 59 40 | 24 00 00 | ♋ 4 40 06 | 00 46 30 | A | S |
| | | | a calce Caſtoris | μ | 3 50 20 | 3 50 24 | | | | |
| | 20 | 9 56 | ♄ a Palilicio | | 29 32 30 | 29 33 00 | | | | |
| | | | ab Oculo Boreo Tauri | ε | 30 35 10 | 30 35 40 | | | | |
| | | | ab Aurigæ Humero | β | 23 56 30 | 23 56 55 | | | | |
| | | | a Polluce | | 16 03 50 | 16 04 05 | | | | |
| | | | a calce Caſtoris | | 3 42 00 | 3 42 04 | | | | |
| MDCLXXX. | | | | | | | | | | |
| Feb. | 17 | 7 14 | ♄ ab Oculo Tauri Boreo | ε | 27 30 10 | 27 30 35 | ♋ 1 26 01 | 00 37 18 | A | S |
| | | | ab Aurigæ | β | 22 50 50 | 22 51 10 | 1 25 56 | 00 37 07 | | W |
| | 20 | 10 00 | ♄ a Regulo | | 53 58 20 | 53 59 10 | ♋ 1 24 32 | 00 37 30 | A | S |
| | | | ab Aurigæ | β | 22 50 40 | 22 51 00 | 1 24 28 | 00 37 21 | | W |
| Mar. | 23 | 8 51 | ♄ a Regulo | | 53 03 10 | 53 04 00 | ♋ 2 19 51 | 00 31 59 | A | S |
| | | | ab Aurigæ | β | 23 00 05 | 23 00 25 | 2 19 41 | 00 32 13 | | W |
| Aug. | 18 | 14 57 | ♄ a Palilicio | | 43 44 50 | 43 45 30 | | | | |
| | | | a calce Caſtoris | | 18 02 40 | 18 03 00 | ♋ 18 52 51 | 00 26 23 | A | S |
| | | | a Polluce | | 6 55 45 | 6 55 50 | 18 52 50 | 00 26 24 | | W |
| Sept. | 5 | 16 32 | ♄ a calce Caſtoris | | 19 42 30 | 19 43 10 | | | | |
| | | | a Caſtore | | 11 21 10 | 11 21 50 | ♋ 20 32 58 | 00 16 05 | A | S |
| | | | a lucid. Pede Geminorum | γ | 17 09 00 | 17 09 20 | 20 32 32 | 00 16 07 | | W |
| | 16 | 15 25 | ♄ a Pede Geminorum | γ | 17 53 50 | 17 54 00 | | | | |
| | | | a Polluce | | 7 21 35 | 7 21 42 | ♋ 21 20 50 | 00 15 13 | A | S |
| Oct. | 11 | 16 40 | ♄ a calce Caſtoris | μ | 21 36 50 | 21 37 10 | | | | |
| | | | a Polluce | | 7 46 40 | 7 46 50 | ♋ 22 27 10 | | | |
| | | | a Palilicio | | 47 19 10 | 47 19 50 | 22 27 07 | 00 13 03 | A | W |
| | 25 | 17 15 | ♄ a Pede Geminorum | γ | 19 03 15 | 19 03 35 | ♋ 22 34 29 | 00 12 22 | A | S |
| | | | a Polluce | | 7 49 20 | 7 49 30 | 22 34 20 | 00 12 22 | | W |
| Nov. | 22 | 17 40 | ♄ a Regulo | | 33 39 00 | 33 39 30 | ♋ 21 44 35 | 00 09 40 | A | S |
| | | | a Caſtore | | 11 48 35 | 11 48 45 | 21 44 45 | 00 09 26 | | W |
| Dec. | 7 | 14 30 | ♄ a calce Caſtoris | | 19 58 30 | 19 58 50 | ♋ 20 48 44 | 00 08 13 | A | |
| | | | a Caſtore | | 11 21 10 | 11 21 20 | | | | |
| | | | per diſt. a calce & latitudinem | | aſſumptam | | ♋ 20 48 17 | 00 09 p. Eph. | | W |
| | 10 | 15 20 | ♄ a Caſtore | | 11 15 20 | 11 15 30 | | | | S |
| | | | a lucido Pede Geminorum | γ | 17 14 00 | 17 14 15 | ♋ 20 35 12 | 00 08 12 | A | |
| | | | per diſt. a lucid. Pede γ & latit. | | aſſumptam | | ♋ 20 35 25 | 00 08 | A | W |
| | 21 | 9 03 | ♄ ab Hum. præced. Orionis | | | 36 47 10 | | | | |
| | | | a calce Caſtoris | | | 18 55 00 | ♋ 19 46 25 | 00 09 00 | A | W |
| | | | ab Hum. ſeq. Aurigæ | | | 32 03 00 | | | | |
| | 29 | 11 23 | ♄ a Caſtore | | 10 40 30 | 10 40 40 | 19 04 46 | 00 06 10 | | W |
| | | | a lucid. Pede Geminorum | γ | 15 52 20 | 15 52 35 | ♋ 19 04 51 | 00 06 09 | A | S |
| ☍ | ☉ | | a calce Caſtoris | | 18 15 10 | 18 15 30 | 19 05 01 | 00 05 40 | | W p. diſt. |
| | | | ♄ a Procyone | | 16 01 40 | 16 01 55 | p. diſt. a proc. | & Calce. | | W |

| MDCLXXXI. Menſ. Die. Styl. Vet. | Temp. Ap. h ′ | SATURNI a FIXIS. | Diſtantiæ Obſervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo. ♄ ſ ° ′ ″ | Latitudo. ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|
| Jan. 5 | 7 57 | ♄ à Calce Caſtoris | 17 41 25 | 17 41 40 | 18 31 20 | 0 04 40 | A | W |
| | | à Caſtore | 10 30 05 | 10 30 20 | ♋ 18 31 29 | 0 05 09 | | S |
| | | à lucid. Pede Geminorum | 15 22 40 | 15 22 55 | 18 31 23 | | | |
| 10 | 9 26 | ♄ à Calce Caſtoris | 17 16 50 | 17 17 05 | | | | |
| | | à Procyone | 16 12 45 | 16 13 05 | ♋ 18 06 57 | 0 04 10 | A | W |
| Feb. 22 | 7 37 | ♄ à Calce Caſtoris | 14 56 10 | 14 56 25 | ♋ 15 45 42 | 0 00 38 | A | S |
| | | à Procyone | 16 54 20 | 16 54 40 | 15 45 44 | 0 00 47 | | W |
| Mar. 23 | 8 46 | ♄ à Regulo | 39 30 15 | 39 30 55 | ♋ 15 53 13 | 0 03 05 | B | I F. L W. |
| | | à Procyone | 16 54 15 | 16 54 40 | 15 53 17 | 0 03 07 | | S |
| 31 | 8 10 | ♄ à Regulo | 39 11 50 | 39 12 30 | ♋ 16 11 47 | 0 04 01 | B | S |
| | | à Procyone | 16 49 25 | 16 49 50 | 16 11 39 | 0 04 45 | | W |
| Apr. 21 | 8 50 | ♄ à Regulo | 37 54 10 | 37 54 40 | ♋ 17 29 30 | 0 05 03 | B | S |
| | | à Caſtore | 10 07 00 | 10 07 10 | 17 29 22 | 0 05 58 | | W |
| Sept. 4 | 16 25 | ♄ à Caſtore | 19 52 20 | 19 52 55 | ♌ 3 13 05 | 0 17 49 | B | S |
| | | à Procyone | 20 00 50 | 20 01 10 | 3 12 58 | 0 17 51 | | W |
| Oct. 11 | 16 52 | ♄ à Calce Caſtoris | 35 09 10 | 35 09 45 | ♌ 5 59 39 | 0 23 14 | B | S |
| | | à Collo Hydræ | θ 16 36 05 | 16 36 20 | 5 59 44 | 0 23 28 | | W |
| Nov. 21 | 17 12 | ♄ à Regulo | 19 00 20 | 19 00 40 | ♌ 6 23 52 | 0 29 05 | B | S |
| | | ab Hydra | ζ 12 04 10 | 12 04 25 | 6 23 53 | 0 29 13 | | W |
| Nov. 29 | 17 07 | ♄ à Regulo | 19 14 35 | 19 14 50 | ♌ 6 09 39 | 0 29 46 | B | S |
| | | ab Hydra | ζ 12 09 35 | 12 09 50 | 6 09 38 | 0 30 01 | | W |
| MDCLXXXII. | | | | | | | | |
| Jan. 8 | 13 47 | ♄ à Calce Caſtoris | μ 32 38 30 | 32 39 00 | 3 27 39 | 0 36 07 | | I F. |
| | | à Regulo | 21 57 20 | 21 57 40 | ♌ 3 27 00 | 0 35 46 | B | S |
| ☍ ☉ | | ab Hydra | ζ 13 22 00 | 13 22 15 | 3 26 59 | 0 36 52 | | W |
| Jan. 17 | 10 00 | ♄ à Calce Geminorum | μ 31 54 45 | 31 55 10 | | | | |
| | | à Geminorum | γ 28 58 20 | 28 58 50 | ♌ 2 44 30 | 0 35 39 | B | S |
| | | à Procyone | 19 59 20 | 19 59 35 | 2 44 37 | 0 35 43 | | W |
| | | à Caſtore | 19 18 40 | 19 19 05 | | | | |
| 27 | 9 20 | ♄ à Procyone | 19 34 20 | 19 34 40 | | | | |
| | | à Caſtore | 18 37 20 | 18 37 35 | ♌ 1 56 57 | 0 36 28 | B | S |
| | | à Calce Caſtoris | 31 07 20 | 31 07 50 | 1 57 03 | 0 36 30 | | W |
| Mar. 6 | 8 26 | ♄ à Polluce | 12 33 00 | 12 33 10 | ♌ 29 52 34 | 0 38 56 | B | S |
| | | à Procyone | 18 35 55 | 18 36 15 | 29 52 38 | 0 39 00 | | W |
| Sept. 8 | 16 30 | ♄ à Calce Caſtoris | 45 10 05 | 45 11 30 | ♌ 16 01 49 | 0 48 31 | B | S |
| | | à Leonis | ε 8 52 35 | 8 52 45 | 16 01 32 | 0 48 20 | | W |
| Nov. 7 | 17 00 | ♄ à Calce Caſtoris | 49 26 10 | 49 27 00 | ♌ 20 17 16 | 0 59 36 | B | S |
| | | à Leonis | ε 9 33 45 | 9 33 55 | 20 17 16 | 0 59 28 | | W |
| MDCLXXXIII. | | | | | | | | |
| Jan. 24 | 11 24 | ♄ à Calce Caſtoris | 46 18 15 | 46 19 00 | ♌ 17 08 48 | 1 12 43 | B | S |
| | | à Leonis | ε 8 30 50 | 8 31 00 | 17 08 47 | 1 12 32 | | W |
| 26 | 9 30 | ♄ à Geminorum | μ 46 08 50 | 46 09 35 | ♌ 16 59 16 | 1 13 05 | B | S |
| ☍ ☉ | | à Leonis | ε 8 29 35 | 8 29 45 | 16 59 20 | 1 12 57 | | W |
| Feb. 2 | 7 10 | ♄ à Regulo | 9 02 45 | 9 03 00 | ♌ 16 24 28 | 1 13 31 | B | S |
| | | à Leonis | ε 8 27 25 | 8 27 35 | 16 24 37 | 1 13 40 | | W |
| 16 | 8 33 | ♄ à Calce Caſtoris | μ 44 31 10 | 44 31 50 | ♌ 15 19 46 | 1 14 38 | B | S |
| | | à Leonis | ε 8 29 25 | 8 29 35 | 15 19 36 | 1 14 40 | | W |
| | | à Regulo | 10 07 30 | 10 07 40 | | | | |
| | | per Calcem | ♄ in | | ♌ 15 21 45 | | | S |
| | | | | | 15 21 28 | | | W |
| May 3 | 10 15 | ♄ à Regulo | 11 11 30 | 11 11 40 | ♌ 14 15 36 | 1 12 16 | B | S |
| | | à Leonis | ε 8 42 30 | 8 42 50 | 14 15 27 | 1 12 16 | | W |

| MDCLXXXIII. Mens. Die. Styl. Vet. | Temp. Ap. h m | SATURNI à FIXIS. | Distantiæ Observatæ ° ' " | Correctæ per Refr. ° ' " | Longitudo. ♄ s ° ' " | Latitudo. ° ' " | |
|---|---|---|---|---|---|---|---|
| May 7 | 9 05 | ♄ a Regulo | 10 58 50 | 10 59 00 | ♌ 14 28 18 | 1 12 20 B | S |
| | | a Leonis ε | 8 39 40 | 8 40 00 | 14 28 11 | 1 12 21 | W |
| | | a Virginis β | 38 10 50 | 38 11 30 | | | |
| | | per | Virginis β | ♄ in ♌ | 14 28 54 | S | |
| | | | | | 14 28 57 | W | |
| MDCLXXXIV. | | | | | 0 01 26 | p. Regulum | S |
| Feb. 15 | 10 09 | ♄ a Geminorum calce μ | 59 11 50 | 59 12 50 | ♍ 0 01 52 | | W |
| | | a Regulo | 4 46 30 | 4 46 35 | 0 03 00 | per Calcem | S |
| ☍ ☉ | | | | | 0 03 04 | | W |
| MDCLXXXV. | | | | | | | |
| Mart. 21 | 10 30 | ♄ a Spica Virginis α | 37 56 15 | 37 57 00 | ♍ 11 44 21 | per α Virginis | S |
| ☍ ☉ | | a Regulo | 16 23 00 | 16 23 15 | 11 45 00 | per Regulum | S |
| MDCLXXXVI. | | | | | | | |
| Jan. 10 | 17 06 | ♄ a Regulo | 34 33 40 | 34 34 10 | ♍ 29 59 43 | 2 21 57 B | S |
| | | a Vindemiatrice Virginis ε | 14 53 30 | 14 53 50 | 29 59 42 | 2 21 43 | W |
| | | a Spica Virginis | 19 58 00 | 19 58 20 | | | |
| Mart. 2 | 14 52 | ♄ a Regulo | 31 39 40 | 31 40 10 | ♍ 27 05 05 | per Regulum | S |
| ☍ ☉ | | a Spica Virginis | 22 51 10 | 22 51 30 | 27 03 20 | per Spicam | S |
| MDCLXXXVII. | | | | | | | |
| Mart. 21 | 10 30 | ♄ a Regulo | 43 48 40 | 43 49 00 | ♎ 9 16 02 | 2 42 51 B | S |
| | | a Spica Virginis | 11 17 20 | 11 17 40 | 9 16 01 | 2 42 44 | W |
| ☍ ☉ | | ab Arcturo | 29 56 55 | 29 57 20 | | | |
| April 16 | 9 10 | ♄ a Regulo | 41 56 40 | 41 57 20 | ♎ 7 23 52 | 2 41 10 B | S |
| | | ab Arcturo | 30 36 30 | 30 37 00 | 7 23 58 | 2 41 16 | W |
| May 2 | 9 20 | ♄ a Regulo | 41 05 50 | 41 06 30 | ♎ 6 33 12 | 2 38 03 B | S |
| | | ab Arcturo | 30 58 20 | 30 58 50 | 6 33 11 | 2 38 03 | W |
| MDCLXXXVIII. | | | | | | | |
| Mart. 17 | 11 26 | ♄ a Regulo | 57 17 00 | 57 18 00 | 22 45 30 | 2 45 08 | S |
| | | a Virginis β | 30 04 00 | 30 04 30 | ♎ 22 46 40 | B | S |
| | | a Virginis ε | 21 34 35 | 21 35 00 | 22 46 43 | 2 45 50 | W |
| | | a Serpentis α | 33 04 00 | 33 04 30 | | | |
| ☍ ☉ 30 | 11 40 | ♄ a Regulo | 56 18 15 | 56 19 10 | ♎ 21 47 49 | 2 46 51 B | S |
| | | ab Arcturo | 28 13 00 | 28 13 40 | 21 47 48 | 2 46 52 | W |
| 31 | 11 43 | ♄ a Regulo | 56 13 40 | 56 14 35 | ♎ 21 43 13 | 2 47 00 B | S |
| | | ab Arcturo | 28 12 35 | 28 13 15 | 21 43 13 | 2 47 05 | W |
| Apr. 5 | 12 57 | ♄ a Serpentis α | 34 04 15 | 34 04 50 | ♎ | B | S |
| | | a Virginis ε | 20 29 00 | 20 29 20 | 21 19 05 | 2 46 06 | W |
| MDCLXXXIX. | | | | | | | |
| Apr. 10 | 11 42 | ♄ a Virginis ε | 30 57 50 | 30 58 30 | 3 56 59 | 2 41 48 | S |
| ☍ ☉ | | a Virginis γ | 28 03 30 | 28 04 00 | ♏ | B | |
| | | a Spica | 15 11 50 | 15 12 05 | 3 57 00 | 2 41 42 | W |
| | | a Serpentis α | 26 23 20 | 26 23 50 | | | |

# J O V I S L O C A

## Ab OBSERVATIONIBUS deducta.

| MDCLXXVII. Menſ. Die. Styl. Vet. | Temp. Ap. h m | J O V I S a FIXIS. | Diſtantiæ Obſervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo. ♃$^{is}$ s ° ′ ″ | Latitudo. ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Jun. 6 | 14 19 | ♃ a Markab Pegaſi | 29 19 00 | 29 19 40 | ♒ 27 29 40 | 0 58 38 A | S |
| | | ab Aquarii β | 12 52 25 | 12 53 00 | 27 29 41 | 0 58 38 | W |
| Julii 23 | 12 00 | ♃ a Capricorni β | 25 11 30 | 25 11 55 | | | |
| | | ab Aquilæ α | 39 49 22 | 39 50 00 | ♒ 24 03 42 | 1 09 18 A | • |
| | | a Markab Pegaſi | 31 56 25 | 31 57 10 | 24 03 38 | 1 09 19 | |
| Aug. 7 | 10 08 | ♃ a Capricorni θ | 12 50 35 | 12 50 45 | ♒ 22 11 20 | 1 08 45 | S |
| | | ab Aquarii λ | 14 56 40 | 14 56 55 | 22 11 15 | A | W |
| | | a Capricorni β | 23 19 16 | 23 19 40 | 22 09 11 | per ♒$^{ii}$ λ | S |
| | | ab Aquilæ α | 38 41 03 | 38 42 00 | ♒ 22 11 02 | per ♑$^{i}$ β | S |
| | | a Markab Pegaſi | 33 25 50 | 33 26 45 | 22 08 38 | per ♒$^{ii}$ λ | W |
| MDCLXXVIII. | | | | | | | |
| Junii 11 | 13 56 | ♃ a lucida Arietis | 32 35 55 | 32 36 30 | ♈ 2 24 37 | 1 17 14 A | S |
| | | a Markab Pegaſi | 24 30 10 | 24 32 00 | 2 24 40 | 1 17 19 | W |
| Sept. 3 | 9 42 | ♃ a Capricorni θ | 50 39 35 | 50 40 30 | ♈ 0 02 41 | 1 37 46 A | S |
| | | ab Aquarii λ | 22 57 45 | 22 58 10 | 0 02 36 | 1 38 11 | W |
| | | a Sheat Pegaſi | 33 06 55 | 33 07 50 | | | |
| | | | | | ♈ 0 01 38 | per ♒$^{ii}$ λ | |
| | | | | | 0 01 30 | | |
| Oct. 15 | 8 14 | ♃ ab Arietis α | 39 28 20 | 39 39 00 | ♓ 25 03 34 | 1 34 54 A | S |
| | | a Markab | 21 48 40 | 21 49 10 | 25 03 29 | 1 34 35 | W |
| 18 | 8 55 | ♃ ab Arietis α | 39 51 35 | 39 52 10 | ♓ 24 49 45 | 1 34 09 A | S |
| | | a Markab Pegaſi | 21 44 24 | 21 44 45 | 24 49 31 | 1 34 20 | W |
| 31 | 6 12 | ♃ a lucida Arietis α | 40 27 35 | 40 28 15 | ♓ 24 11 57 | 1 31 19 A | |
| | | a Markab Pegaſi | 21 31 55 | 21 32 30 | 24 11 57 | 1 31 26 | |
| | | ab Aquarii λ | 17 08 25 | 17 08 40 | | | |
| MDCLXXIX. | | | | | | | |
| Jan. 14 | 6 58 | ♃ a lucida Arietis α | 33 57 25 | 33 58 30 | ♈ 0 56 07 | 1 13 05 A | S |
| | | a Markab | 23 42 55 | 23 43 20 | 0 56 08 | 1 13 09 | W |
| Julii 27 | 14 35 | ♃ a Piſcium ζ | 24 33 10 | 24 33 35 | ♉ 9 55 52 | 1 17 18 A | S |
| | | a lucida in Mandib. Ceti | 11 19 20 | 11 19 45 | 9 55 56 | 1 17 13 | W |
| Aug. 10 | 14 42 | ♃ a Pegaſi γ | 38 18 40 | 38 19 20 | ♉ 10 39 00 | 1 19 19 A | S |
| | | a Tauri ζ | 39 37 10 | 39 37 50 | 10 40 09 | 1 19 00 | W |
| 15 | 14 36 | ♃ a cornu Tauri boreo β | 37 52 15 | 37 52 50 | ♉ 10 45 47 | 1 21 38 A | S |
| | | ab Alamech. Androm. | 29 08 05 | 29 08 40 | 10 45 50 | 1 21 37 | W |
| 21 | 15 43 | ♃ a Tauri β | 37 50 55 | 37 51 30 | ♉ 10 47 22 | 1 22 46 A | S |
| | | ab Alamech | 29 09 20 | 29 09 50 | 10 47 32 | 1 22 43 | W |
| 31 | 15 57 | ♃ a Tauri β | 38 04 35 | 38 05 10 | ♉ 10 33 51 | 1 24 44 A | S |
| | | ab Andromeda γ | 29 11 00 | 29 11 25 | 10 33 52 | 1 24 45 | W |
| Oct. 18 | 7 31 | ♃ a lucida Pleiadum | 20 28 45 | 20 29 05 | ♉ 5 46 23 | 1 27 26 A | S |
| | | a Perſei ζ | 26 04 40 | 26 05 05 | per ♈$^{is}$ α | & ♉$^{i}$ η | |
| | | ab Arietis β | 11 43 15 | 11 44 00 | ♉ 5 45 57 | 1 27 22 A | S |
| | | ab Arietis α | 11 41 10 | 11 41 55 | per ♈$^{is}$ β | & Perſei ζ | |
| | | ab Aquarii λ | 58 39 20 | 58 40 20 | ♉ 5 45 55 | 1 27 15 A | W |
| | | a Pegaſi γ | 33 52 00 | 33 52 50 | per ♈$^{is}$ β | & Perſei ζ | |
| | | a Palilicio | 29 46 40 | 29 49 50 | ♉ 5 46 20 | per ♉$^{i}$ η | W |

| MDCLXXIX. Menſ. Die. Styl. Vet. | Temp. Ap. h m | JOVIS à FIXIS. | Diſtantiæ Obſervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo. ♃ s ° ′ ″ | Latitudo. ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Oct. 19 | 13 47 | ♃ a Palilicio | 29 56 00 | 29 56 30 | | A | S |
| | | a lucida Arietis α | 11 39 15 | 11 39 25 | ♉ 5 34 40 | 1 27 27 | W |
| | | a calce Caſtoris μ | 55 13 05 | 55 14 00 | | | |
| 22 | 7 40 | ♃ ab Aquarii λ | 58 07 00 | 58 08 00 | | | S |
| | | a Perſei β | 28 45 10 | 28 45 40 | ♉ 5 13 36 | 1 27 21 A | W |
| | | a Pegaſi γ | 33 23 20 | 33 23 50 | | | |
| 24 | 8 56 | ♃ a lucida Pleiadum | 21 16 55 | 21 17 15 | | A | S |
| | | ab Arietis β | 11 18 00 | 11 18 20 | ♉ 4 56 18 | 1 26 45 | W |
| Nov. 1 | 8 20 | ♃ a Tauri η | 22 17 05 | 22 17 25 | ♉ 3 53 55 | 1 25 59 A | S |
| | | ab Arietis β | 10 49 55 | 10 50 05 | 3 54 08 | 1 26 12 | W |
| 17 | 10 40 | ♃ a Palilicio | 33 22 55 | 33 23 30 | ♉ 2 06 18 | 1 22 16 A | S |
| | | ab Arietis α | 11 22 15 | 11 22 30 | 2 06 16 | 1 22 20 | W |
| Dec. 2 | 9 33 | ♃ a Palilicio | 34 24 35 | 34 25 10 | ♉ 1 14 50 | 1 17 57 A | S |
| | | a 2^da^ Arietis β | 9 53 40 | 9 53 50 | 1 14 50 | 1 18 03 | W |
| MDCLXXX. | | | | | | | |
| Aug. 18 | 13 02 | ♃ ab Aurigæ β | 24 39 05 | 24 39 30 | ♊ 14 26 36 | 0 42 47 A | S |
| | | ab Arietis α | 42 24 00 | 42 24 50 | 14 26 44 | 0 42 51 | W |
| Sept. 16 | 14 27 | ♃ ab Arietis α | 44 18 55 | 44 19 40 | 16 24 41 | 0 46 14 A | S |
| | | ab Oculo Tauri boreo ε | 12 33 30 | 12 33 40 | per ♈^ti^ α | & Aurigæ ε | |
| | | a pede ſub Aurigæ ε | 11 56 15 | 11 56 30 | ♊ 16 25 24 | 0 46 01 A | S |
| | | | | | 16 25 12 | 0 46 00 | W |
| | | | | | per ♉^i^ ε | & Aurigæ ε | |
| Oct. 25 | 16 51 | ♃ ab Aurigæ | 11 28 35 | 11 28 45 | ♊ 14 49 12 | 0 46 10 A | S |
| | | a calce Caſtoris | 16 00 55 | 16 01 10 | 14 49 06 | 0 46 01 | W |
| Nov. 7 | 14 13 | ♃ ab Aurigæ | 11 13 00 | 11 13 10 | | | |
| | | a Polluce | 34 02 20 | 34 02 50 | ♊ 13 21 09 | 0 45 06 A | S |
| | | a calce Caſtoris | 17 29 05 | 17 29 20 | 13 21 08 | 0 45 00 | W |
| 13 | 11 15 | ♃ a lucida Arietis | 40 37 10 | 40 37 50 | ♊ 12 35 16 | 0 43 42 A | I F. |
| | | ab Aurigæ | 11 08 50 | 11 09 00 | 12 35 09 | 0 44 02 * | S |
| 22 | 8 00 | ♃ ab Algol Meduſa | 30 01 00 | 30 01 40 | | | |
| | | a lucida Pleiadum | 16 32 05 | 16 32 30 | | | |
| | | a Palilicio | 7 43 20 | 7 43 25 | ♊ 11 24 21 | 0 42 58 A | S |
| | | a Tauri ε | 9 03 40 | 9 03 50 | 11 24 14 | 0 42 52 | W |
| | | ab Aurigæ β | 26 05 10 | 26 05 40 | per ♉^i^ η | & Aurigæ β | |
| 27 | 8 57 | ♃ a Palilicio | 7 12 10 | 7 12 20 | ♊ 10 42 52 | 0 42 22 A | S |
| | | a Tauri ε | 9 33 50 | 9 34 00 | 10 42 43 | 0 42 20 | W |
| | | ab Algol Meduſæ | 29 35 10 | 29 35 40 | | | |
| Dec. 2 | 8 47 | ♃ a Tauri η | 15 14 10 | 15 14 25 | ♊ 10 03 11 | 0 40 55 A | S |
| | | a Capella | 24 36 05 | 24 36 30 | 10 03 05 | 0 40 56 | W |
| MDCLXXXI. | | | | | | | |
| Jan. 10 | 9 06 | ♃ a Geminorum μ | 24 15 10 | 24 15 30 | ♊ 6 35 11 | 0 33 46 A | S |
| | | a Perſei α | 31 48 20 | 31 48 50 | 6 35 07 | 0 33 53 | W |
| 24 | 5 30 | ♃ ab Arietis α | 34 43 20 | 34 43 50 | ♊ 6 28 57 | 0 30 06 A | S |
| | | a Capella | 25 39 50 | 25 40 15 | 6 28 56 | 0 30 02 | W |
| Feb. 22 | 7 20 | ♃ a lucido latere Perſei | 32 08 00 | 32 08 30 | ♊ 8 15 47 | 0 25 10 A | S |
| | | a Polluce | 41 03 50 | 41 04 30 | 8 15 46 | 0 25 00 | W |
| April. 8 | 8 00 | ♃ a Polluce | 34 16 35 | 34 17 30 | ♊ 15 09 29 | A | S |
| | | ab Aurigæ ε | 21 11 40 | 21 12 10 | 15 09 30 | 0 17 00 | W |
| Sept. 4 | 15 57 | ♃ a Palilicio | 41 07 45 | 41 08 20 | ♋ 16 11 29 | 0 01 44 A | S |
| | | a Geminorum μ | 15 21 00 | 15 21 15 | 16 11 25 | 0 01 40 | W |
| | | ab hum. præ Orionis γ | 33 43 35 | 33 44 10 | per Orionis γ | & Aurigæ β | |
| | | ab Aurigæ hum. ſeq. β | 29 30 10 | 29 30 40 | | | |

| MDCLXXXI. Menf. Die. Styl. Vet. | Temp. Ap. h m | JOVIS a FIXIS. | Diſtantiæ Obſervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo. ♃ s ° ′ ″ | Latitudo. ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Oct. 2 | 17 50 | ♃ a Caſtore | 10 38 40 | 10 38 50 | ♋ 18 56 36 | 0 07 00 A | S |
| | | a calce Caſtoris | 18 05 50 | 18 06 10 | 18 56 36 | 0 07 00 | W |
| 11 | 16 32 | ♃ a Caſtore | 10 49 25 | 10 49 40 | ♋ 19 54 47 | 0 02 01 B | S |
| | | a calce Caſtoris | 19 04 20 | 19 04 40 | 19 54 46 | 0 02 06 | W |
| Nov. 3 | 16 10 | ♃ a Geminorum μ | 19 20 45 | 19 21 25 | ♋ 20 11 26 | 0 05 27 B | S |
| | | a Polluce | 6 42 20 | 6 42 25 | 20 11 25 | 0 05 21 | W |
| 21 | 16 50 | ♃ a Geminorum μ | 18 21 55 | 18 22 10 | ♋ 19 12 00 | 0 07 58 B | S |
| | | a Caſtore | 10 29 05 | 10 29 15 | 19 12 03 | 0 07 54 | W |
| | | a Regulo | 36 12 55 | 36 13 30 | per Caſtorem | & Gemin. μ | |
| Dec. 21 | 10 05 | ♃ a Palilicio | 40 47 00 | 40 47 40 | ♋ 15 48 16 | 0 12 18 B | S |
| | | a calce Caſtoris | 14 58 50 | 14 59 05 | 15 48 20 | 0 12 16 | W |
| | | a Caſtore | 9 51 20 | 9 51 30 | per Caſtorem | & Gemin. μ | |
| 27 | 9 30 | ♃ a Palilicio | 39 59 40 | 40 00 20 | ♋ 14 59 17 | 0 12 32 B | S |
| | | a calce Caſtoris | 14 11 00 | 14 11 10 | per Pollucem | & Gemin. μ | |
| | | a Caſtore | 9 52 30 | 9 52 40 | ♋ 14 59 39 | 0 13 08 B | S |
| | | a Polluce | 7 29 20 | 7 29 30 | per Caſtorem | & Tauri α | |
| | | | | | ♋ 14 59 20 | 0 13 08 B | W |
| | | | | | per Caſtorem | & Gemin. μ | |
| MDCLXXXII. | | | | | | | |
| Jan. 27 | 09 00 | ♃ a Geminorum μ | 10 35 50 | 10 36 00 | ♋ 11 23 58 | 0 16 18 B | |
| | | a Caſtore | 10 42 40 | 10 43 50 | 11 23 57 | 0 16 20 | |
| Feb. 3 | 7 00 | ♃ a calce Caſtoris | 10 05 05 | 10 05 15 | ♋ 10 53 05 | 0 16 10 B | S |
| | | a Caſtore | 10 57 00 | 10 57 10 | 10 53 04 | 0 16 07 | W |
| Mar. 6 | 8 10 | ♃ a Geminorum μ | 9 37 55 | 9 38 05 | ♋ 10 25 14 | 0 20 38 B | S |
| | | a Procyone | 19 34 30 | 19 34 50 | 10 25 13 | 0 20 40 | W |
| Sept. 8 | 16 20 | ♃ a Geminorum μ | 42 39 00 | 42 39 50 | ♌ 13 30 35 | 0 32 40 B | S |
| | | a Leonis ε | 9 32 20 | 9 32 30 | 13 30 39 | 0 32 39 | W |
| Nov. 7 | 17 05 | ♃ a calce Caſtoris | 50 41 00 | 50 41 50 | ♌ 21 32 38 | 0 44 55 B | S |
| | | a Leonis ε | 10 21 30 | 10 21 40 | 21 32 36 | 0 44 55 | W |
| MDCLXXXIII. | | | | | | | |
| Jan. 26 | 9 26 | ♃ a Geminorum μ | 46 18 10 | 46 18 50 | ♌ 17 09 04 | 1 01 26 B | S |
| | | a Leonis ε | 8 42 05 | 8 42 15 | 17 09 08 | 1 01 18 | W |
| Feb. 2 | 7 06 | ♃ a Regulo | 9 13 25 | 9 14 00 | ♌ 16 12 40 | 1 01 54 B | S |
| | | a Leonis ε | 8 39 00 | 8 39 10 | 16 12 38 | 1 01 55 | W |
| 16 | 8 28 | ♃ a Geminorum μ | 43 40 50 | 43 41 30 | ♌ 14 29 27 | 1 03 00 B | S |
| | | a Leonis ε | 8 48 45 | 8 48 55 | 14 29 29 | 1 02 58 | W |
| | | a Regulo | 10 56 55 | 10 57 05 | per Regulum | & Leonis ε | |
| May 3 | 10 10 | ♃ a Leonis ε | 9 00 50 | 9 01 20 | ♌ 14 01 43 | 0 56 39 B | S |
| | | a Regulo | 11 24 30 | 11 24 40 | 14 01 44 | 0 56 38 | W |
| 7 | 9 01 | ♃ a Regulo | 10 59 00 | 10 59 10 | ♌ 14 27 15 | 0 56 15 B | S |
| | | a Leonis ε | 8 55 40 | 8 56 00 | 14 27 15 | 0 56 25 | W |
| MDCLXXXIV | | | | | | | |
| Feb. 27 | 9 00 | ♃ a Regulo | 22 05 40 | 22 06 00 | ♍ 17 31 19 | 1 30 14 B | S |
| | | a Polluce | 58 41 25 | 58 42 20 | 17 31 19 | 1 30 12 | W |
| | | a Leonis β | 10 46 40 | 10 46 50 | per Regulum | & Leonis β | |
| | | | | | | per Ephem. | |
| MDCLXXXV. | | | | | | | |
| Mar. 27 | 11 10 | ♃ a Regulo | 52 10 50 | 52 11 40 | ♎ 17 38 52 | 1 36 00 B | S |
| | | | | | 17 38 56 | | W |

| MDCLXXXVI. Menſ. Die. Styl. Vet. | Temp. Ap. h m | JOVIS a FIXIS. | Diſtantia Obſervatæ ° ′ ″ | Correcta per Refr. ° ′ ″ | Longitudo. ♃ⁱˢ s ° ′ ″ | Latitudo. ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|
| Apr. 30 | 13 28 | ♃ a Spica Virginis | 28 13 20 | 28 13 50 | ♏ 17 31 06 | 1 13 46 B | S | |
| | | a Virginis β | 11 19 00 | 11 19 10 | 17 31 01 | 1 13 37 | W | |
| | | a lance borea Libræ β | 7 43 10 | 7 43 40 | | | | |
| Maii 14 | 10 05 | ♃ a Virginis α | 26 31 30 | 26 31 55 | ♏ 15 48 33 | 1 12 35 B | S | |
| | | ab Arcturo | 38 33 30 | 38 34 40 | 15 48 33 | 1 12 34 | W | |
| MDCLXXXVII. | | | | | per Scorpii β | & Herculis | | |
| Maii 30 | 12 44 | ♃ a Scorpii β | 20 23 10 | 20 23 30 | ♐ 19 13 56 | 0 29 45 B | S | I F. |
| | | a Sagittarii π | 22 42 25 | 22 42 50 | 19 12 55 | 0 30 01 | W | |
| | | a Capite Herculis | 37 24 55 | 37 27 00 | per Herculis α | & Sagittarii π | | |
| 31 | 11 10 | ♃ ab Ophiuchi Yed. | 26 43 05 | 26 44 10 | | | | |
| | | ab Aquilæ lucida | 46 27 25 | 46 28 30 | ♐ 19 04 39 | 0 29 38 B | S | |
| | | a Scorpii β | 20 15 50 | 20 16 10 | 19 04 37 | 0 29 41 | W | |
| Junii 25 | 11 22 | ♃ ab Aquilæ α | 48 43 00 | 48 44 20 | | | | |
| | | a Yed Ophiuchi | 24 34 50 | 24 36 00 | | | | |
| | | | | 48 45 10 | ♐ 16 08 17 | 0 25 40 B | | |
| | | | | 24 36 10 | 16 07 50 | 0 24 55 | | |
| MDCLXXXVIII. | | | | | | | | |
| Julii 4 | 10 04 | ♃ ab Aquarii α | 38 13 55 | 38 14 30 | ♑ 22 12 42 | 0 25 38 A | S | |
| | | ab Aquilæ ζ | 37 09 10 | 37 11 30 | per Aquarii α | & Aquilæ ζ | | |
| | | a Sagittarii π | 10 29 15 | 10 29 25 | | | | |
| | | | Aquarii α | 38 14 20 | ♑ 22 12 50 | 0 25 22 A | W | |
| | | | Aquarii ζ | 37 11 20 | per Easdem | | | |
| Aug. 28 | 8 10 | ♃ ab Aquarii β | 32 48 40 | 32 49 20 | ♑ 17 25 06 | 0 30 29 A | S | |
| | | ab Aquilæ ζ | 36 45 15 | 36 47 00 | 17 25 08 | 0 30 30 | W | |
| MDCLXXXIX | | | | | | | | |
| Aug. 9 | 9 58 | ♃ a Sagittarii π | 45 37 50 | 45 38 40 | ♒ 27 30 20 | 1 16 24 A | S | |
| | | ab Aquarii β | 12 58 50 | 12 59 20 | per Pegaſi ε | & Sagittarii π | | |
| | | a Pegaſi ε | 23 22 35 | 23 23 40 | | | | |
| | | a Piſcium η | 55 20 25 | 55 21 20 | 27 30 35 | 1 16 33 A | W | |
| | | a Pegaſi γ | 39 34 40 | 39 35 20 | per Aquarii β | & Sagittarii π | | |
| 10 | 8 52 | ♃ a Sagittarii π | 45 30 50 | 45 31 30 | ♒ 27 23 06 | | W | |
| | | a Capricorni θ | 17 52 10 | 17 52 30 | ♒ 27 23 06 | 1 17 20 A | W | |
| | | ab Aquarii λ | 9 56 50 | 9 57 00 | 27 22 49 | 1 17 00 W | S | |
| | | | | | ♒ 27 19 35 | | S | |
| | | | | | 27 19 43 | | W | |

# MARTIS LOCA

## Ab OBSERVATIONIBUS deducta.

| MDCLXXVI. Menſ. Die. Styl. Vet. | Temp. Ap. h m | MARTIS a FIXIS. | Diſtantia Obſervatæ ° ′ ″ | Correcta per Refr. ° ′ ″ | Longitudo. ♂ᵗⁱˢ s ° ′ ″ | Latitudo. ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Dec. 18 | 6 44 | ♂ a Palilicio | 30 36 30 | 30 36 55 | | | |
| | | a Tauri ζ | 15 23 20 | 15 23 35 | ♋ 4 29 55 | 3 36 20 B | I. F. |
| | | a Capella | 25 23 20 | 25 23 40 | | | |
| | | a Caſtore | 15 52 10 | 15 52 20 | per Caſtorem | & Capellam | |

| MDCLXXVI. Menſ. Die. Styl. Vet. | Temp. Ap. h m | MARTIS à FIXIS. | Diſtantiæ Obſervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo ♂tis s ° ′ ″ | Latitudo ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Dec. 19 | 7 25 | ♂ a Tauri ζ | 15 05 00 | 15 05 15 | ♋ 4 05 21 | 3 39 15 B | S |
| | 8 30 | a Capella | 25 07 20 | 25 07 50 | ♋ 4 10 20 | per Taur. ζ | S |
| | 44 | a Caſtore | 13 13 00 | 13 13 10 | | | |
| | | | | 15 05 20 | ♋ 4 09 34 | 3 41 26 B | W |
| | | | | 25 08 45 | 4 05 48 | per Caſtorem | W |
| | | | | 13 12 25 | | | |
| | 16 16 | a Tauri ζ | 14 54 00 | 14 54 50 | ♋ 3 58 30 | 3 40 29 B | S |
| | | a Capella | 25 02 10 | 25 02 35 | ♋ 3 58 16 | 3 40 21 B | W |
| | | | | 14 54 35 | | | |
| | | | | 25 02 50 | | | |
| MDCLXXVII. | | | | | | | |
| Jan. 9 | 6 44 | ♂ a Palilicio | 24 31 10 | 24 31 35 | ♊ 28 02 00 | 3 41 51 B | S |
| | | a Capella | 21 46 20 | 21 46 40 | 28 02 04 | 3 41 53 | W |
| Mar. 12 | 9 20 | ♂ a Polluce | 11 30 00 | 11 30 10 | ♋ 8 00 40 | 2 27 44 B | S |
| | | ♂ ab Aurigæ β | 22 36 50 | 22 37 10 | 8 00 39 | 2 27 43 | W |
| MDCLXXVIII. | | | | | | Lat. per Eph. 1 02 00 | |
| Sept. 28 | 17 00 | ♂ a Palilicio | 52 25 35 | 52 26 20 | ♋ 27 23 46 | per Tauri α | W |
| | | ab hum. ſeq. Orionis α | 36 55 10 | 36 55 40 | 27 24 36 | per Orionis | W |
| Nov. 4 | 16 38 | ♂ ab Urſæ majoris β | 43 04 20 | 43 05 00 | | | |
| | | a Tauri ζ | 53 54 10 | 53 55 00 | | | |
| | | a Tauri ε | 55 53 45 | 55 54 30 | ♌ 14 03 45 | 2 01 55 B | W |
| | | a Geminorum μ | 43 18 40 | 43 19 10 | | | |
| 10 | 16 30 | ♂ a Cornu Tauri Auſt. ζ | 55 53 10 | 55 54 00 | ♌ | B | |
| | | ab Urſæ majoris ε | 42 53 05 | 42 53 40 | 16 02 19 | 2 13 31 | W |
| MDCLXXIX. | | | | | | | |
| Jan. 7 | 9 12 | ♂ ab Aſello Auſt. | 12 59 45 | 13 00 00 | ♌ 16 33 14 | 4 16 12 B | S |
| | | a Leonis ζ | 9 56 30 | 9 56 40 | 16 33 17 | 4 16 05 | W |
| 14 | 8 42 | ♂ a Regulo | 12 06 20 | 12 07 00 | | | |
| | | a Leonis η | 9 27 30 | 9 27 40 | ♌ 13 56 35 | 4 29 35 B | W |
| | | a Leonis γ | 11 52 30 | 11 52 40 | | | |
| | 16 41 | ♂ a Regulo | 12 14 45 | 12 15 00 | | | |
| | | a Leonis η | 9 35 20 | 9 35 30 | ♌ 13 47 46 | 4 29 39 B | W |
| | | a Leonis γ | 12 00 50 | 12 01 10 | | | |
| Mart. 26 | 10 30 | ♂ a Regulo | 20 24 30 | 20 24 50 | ♌ 5 04 40 | 2 43 38 B | S |
| | | ab Urſæ majoris λ | 28 44 45 | 28 45 20 | 5 04 40 | 2 43 31 | W |
| MDCLXXX. | | | | | | | |
| Julii 22 | 14 44 | ♂ a Caſtore | 17 29 35 | 17 29 50 | ♋ | B | |
| | 56 | a Perſei α | 43 27 45 | 43 29 50 | 1 06 47 | 0 25 18 | W |
| Aug. 18 | 14 46 | ♂ a Geminorum μ | 17 48 35 | 17 49 20 | ♋ | B | S |
| | 15 07 | a Polluce | 5 53 35 | 5 53 40 | 18 35 17 | 0 46 00 | W |
| Sept. 5 | 15 58 | ♂ a Geminorum μ | 29 00 45 | 29 01 10 | | | |
| | 16 02 | a Polluce | 12 20 00 | 12 20 25 | ♋ 29 48 08 | 0 59 59 :: | S |
| | | a Procyone | 18 53 00 | 18 53 20 | 29 47 43 | 0 59 43 B | W |
| 16 | 15 04 | ♂ a Caſtore | 22 19 50 | 22 20 50 | ♌ 6 24 15 | 1 28 36 B | S |
| | | a Procyone | 22 38 30 | 22 38 50 | 6 24 11 | 1 28 30 | W |
| Oct. 11 | 17 06 | ♂ a Polluce | 32 17 40 | 32 18 10 | ♌ 20 47 30 | 1 30 25 B | S |
| | | a Leonis ζ | 10 34 40 | 10 34 50 | 20 47 31 | 1 30 25 | W |
| 25 | 17 30 | ♂ a Polluce | 39 38 20 | 39 38 50 | ♌ 28 16 30 | 1 43 03 B | S |
| | | ab Urſæ majoris ν | 24 40 40 | 24 41 00 | 28 16 30 | 1 43 03 | W |
| Nov. 22 | 18 00 | ♂ a Regulo | 16 16 40 | 16 16 55 | ♍ 11 34 55 | 2 15 15 B | S |
| | | a Leonis δ | 12 56 25 | 12 56 40 | 11 34 54 | 2 15 15 | W |

| MDCLXXX. Menſ. Die. Styl. Vet. | Temp. Ap. h m | MARTIS à FIXIS. | Diſtantiæ Obſervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo ♂ʳⁱˢ s ° ′ ″ | Latitudo ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Dec. 12 | 18 11 | ♂ a Regulo | 23 41 40 | 23 42 00 | ♍ 18 59 54 | 2 42 36 B | S |
| | | a cauda Leonis β | 9 43 55 | 9 44 10 | 18 59 54 | 2 42 35 | W |
| MDCLXXXI. | | | | | | | |
| Feb. 23 | 9 03 | ♂ a Regulo | 19 53 40 | 19 54 00 | ♍ 14 59 27 | 4 01 48 B | S |
| | | a Leonis γ | 20 17 25 | 20 17 50 | 14 59 28 | 4 01 50 | W |
| | | a Leonis cauda β | 8 31 55 | 8 32 05 | | | |
| Martii 8 | 8 22 | ♂ a Leonis σ | 4 35 30 | 4 35 40 | ♌ 10 07 51 | 3 42 50 B | I.F. |
| | 29 | a Leonis η | 3 47 20 | 3 47 25 | per σ & η | Leonis | |
| | 37 | a cauda Leonis β | 11 03 40 | 11 03 50 | ♌ 10 07 35 | 3 42 39 B | W |
| | | | | | per σ & β | Leonis | |
| 9 | 8 37 | ♂ a Leonis β | 11 17 50 | 11 18 00 | ♍ 9 47 22 | 3 40 48 B | S |
| | 9 00 | a Leonis γ | 15 26 00 | 15 26 20 | 9 47 26 | 3 40 45 | W |
| | 05 | a Regulo | 14 44 10 | 14 44 40 | per β & γ | Leonis | |
| | 16 09 | a Leonis γ | 15 20 55 | 15 21 10 | ♍ 9 41 34 | 3 40 01 B | S |
| | 16 | a Leonis β | 11 21 10 | 11 22 20 | | | |
| | | | | 15 21 10 | ♍ 9 41 14 | 3 39 10 B | W |
| | | | | 11 23 10 | | | |
| 23 | 9 04 | ♂ a Regulo | 11 12 50 | 11 13 00 | ♍ 6 17 58 | 3 07 09 B | S |
| | 10 | a Leonis δ | 11 12 30 | 11 12 40 | 6 17 57 | 3 07 11 | W |
| 31 | 8 30 | ♂ a Regulo | 10 15 40 | 10 15 50 | ♍ 5 24 06 | 2 46 19 B | S |
| | 42 | a Leonis δ | 11 37 45 | 11 37 55 | 5 24 04 | 2 41 21 | W |
| Apr. 21 | 9 20 | ♂ a Regulo | 11 28 50 | 11 29 00 | ♍ 6 47 35 | 1 54 46 B | S |
| | 26 | a Leonis δ | 12 24 05 | 12 24 20 | 6 47 37 | 1 54 50 | W |
| MDCLXXXII. | | | | | | | |
| Julii 28 | 15 30 | ♂ a Geminorum μ | 17 15 00 | 17 16 20 | ♋ 18 03 14 | p. Geminor. μ | S |
| | 35 | a Palilicio | 43 05 15 | 43 06 30 | 18 02 37 | per Tauri α | S |
| Sept. 8 | 16 23 | ♂ a Geminorum μ | 43 53 45 | 43 54 40 | ♌ 14 43 32 | 1 11 20 B | S |
| | 40 | a Leonis ε | 8 37 50 | 8 38 00 | 14 44 03 | 1 11 14 | W |
| Nov. 7 | 17 20 | ♂ a Leonis δ | 18 15 45 | 18 16 10 | ♍ 20 14 11 | 1 42 15 B | S |
| | | a Vindemiatrice | 20 54 30 | 20 54 50 | 20 14 02 | 1 42 21 | W |
| | 30 | a Regulo | 24 49 40 | 24 50 05 | per δ Leonis | & Virginis ε | |
| 12 | 18 30 | ♂ a Leonis δ | 20 18 50 | 20 19 30 | ♍ 23 01 25 | 1 44 49 B | S |
| | | a Virginis ε | 18 59 40 | 19 00 00 | ♍ 23 01 04 | 1 45 10 B | W |
| | | | | 20 19 10 | | | |
| | | | | 19 00 00 | | | |
| MDCLXXXIII | | | | | | | |
| Mar. 26 | 12 25 | ♂ ab Arcturo | 28 53 00 | 28 53 40 | ♎ 23 40 46 | 2 17 20 B | S |
| | | a Regulo | 58 14 40 | 58 15 40 | 23 40 50 | 2 17 24 | W |
| | 40 | a lance Libræ Auſtrina | 17 06 15 | 17 06 35 | per Regulum | & Bootis α | |
| 30 | 12 41 | ♂ a Regulo | 56 46 45 | 56 47 40 | ♎ 22 12 54 | 2 10 04 B | S |
| | | ab Arcturo | 28 51 35 | 28 52 20 | 22 12 53 | 2 10 16 | W |
| Apr. 2 | 10 50 | ♂ a Regulo | 55 40 20 | 55 41 10 | ♎ 21 06 27 | 2 04 14 B | S |
| | | ab Arcturo | 28 53 45 | 28 54 20 | 21 06 25 | 2 04 15 | W |
| Oct. 14 | 6 20 | ♂ a Capricorni δ | 47 38 10 | 47 39 00 | ♑ 1 27 38 | 1 34 46 A | S |
| | | a capite Ophiuchi | 39 28 50 | 39 30 50 | | | |
| | | | | 47 40 20 | 1 26 18 | 1 36 25 A | W |
| | | | | 39 32 00 | | | |
| MDCLXXXIV | | | | | | | |
| Jan. 4 | 5 30 | ♂ ab η Piſcium | 47 25 30 | 47 26 20 | ♓ 5 19 16 | 0 54 46 A | S |
| | | ab Arietis α | 58 37 00 | 58 38 00 | per Piſcium η | & Pegaſi ε | |
| | | ab ore Pegaſi | 24 15 50 | 24 16 20 | | | |
| | | | | 47 29 00 | ♓ 5 16 58 | 0 57 20 A | W |
| | | | | 24 18 10 | per eaſdem | | |

| MDCLXXXV.<br>*Menſ. Die.*<br>*Styl. Vet.* | *Temp. Ap.*<br>h m | MARTIS<br>a FIXIS. | *Diſtantiæ Obſervatæ*<br>° ′ ″ | *Correctæ per Refr.*<br>° ′ ″ | *Longitudo.*<br>♂ tis<br>s ° ′ ″ | *Latitudo.*<br>° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Mar. 22 | 16 00 | ♂ ab Auſt. lance ♎æ<br>a Yed Ophiuchi<br>ab Aquilæ α | 30 46 40<br>21 23 40<br>52 15 30 | 30 47 00<br>21 24 40<br>52 16 40 | ♐ 11 28 01<br>11 27 51<br>per Aq. α & | 0 32 42 B<br>0 32 35<br>Ophiuchi δ | S<br>W |
| May 17 | 14 29 | ♂ a Sagittarii ♈ | 34 15 00 | 34 15 40 | ♐ 7 48 25<br>♐ 7 46 58 | 2 28 20 A<br>1 55 00 | S p.r Ephem.<br>W per Ephem. |
| 22 | 12 00 | ♂ a Spica Virginis<br>a Sagittarii ♈ | 46 37 55<br>35 56 20 | 46 38 40<br>35 56 55 | ♐ 6 06 57 | 1 11 30 A<br>per Ephem. | W |
| Nov. 6 | 5 05 | ♂ ab Aquarii λ<br>ab Aquilæ α | 28 11 40<br>32 54 10 | 28 12 10<br>32 55 05<br>32 55 20 | ♒ 9 00 26<br>♒ 9 00 26 | 1 38 46 A<br>1 39 01 A | S<br>W |
| MDCLXXXVI.<br>Feb. 11 | 6 13 | ♂ a Palilicio<br>a capite Andromedæ | 45 14 20<br>27 33 45 | 45 15 10<br>27 34 10 | ♈ 20 24 42<br>20 24 40 | 0 02 20 B<br>0 02 20 | S<br>W |
| MDCLXXXVII.<br>Julii 18 | 11 14 | ♂ a Sagittarii σ<br>ab Aquarii β | 40 31 00<br>15 17 00 | 40 31 50<br>15 18 20 | ♒ 18 36 07<br>18 36 17 | 6 39 14 A<br>6 39 13 | S<br>W |
| Sept. 29 | 6 14 | ♂ a Sagittarii ♈<br>ab Aquilæ α | 35 41 15<br>37 53 30 | 35 41 50<br>37 55 20 | ♒ 17 17 12<br>17 17 12 | 3 26 19 A<br>3 26 25 | S<br>W |
| Oct. 26 | 7 13 | ♂ a ſecunda Arietis β<br>ab ore Pegaſi | 60 46 40<br>24 08 50 | 60 47 40<br>24 09 20<br>24 09 30 | ♒ 29 31 01<br>29 31 10 | 1 57 22 A<br>1 57 31 | S<br>W |
| MDCLXXXVIII.<br>Feb. 13 | 16 54 | ♂ a Palilicio<br>ab Arietis α | 27 42 55<br>10 31 55 | 27 43 20<br>10 32 05<br>27 43 30<br>10 32 10 | ♈ 8 22 00<br>♈ 8 21 47 | 0 42 16 B<br>0 42 02 B | S<br>W |
| MDCLXXXIX.<br>Apr. 29 | 15 09 | ♂ a Sagittarii ♈ | 49 49 00 | 49 50 00 | ♓ 1 39 58<br>1 39 50 | 1 50 00 A<br>per Ephem. | S<br>W |

# VENERIS LOCA

Ab OBSERVATIONIBUS puris & non purgatis a Refractionibus deducta.

| MDCLXXVI.<br>*Menſ. Die.*<br>*Styl. Vet.* | *Temp. Ap.*<br>h m | VENERIS<br>a FIXIS. | *Diſtantiæ Obſervatæ*<br>° ′ ″ | *Correctæ per Refr.*<br>° ′ ″ | *Longitudo.*<br>♀ is<br>s ° ′ ″ | *Latitudo.*<br>s ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Nov. 8 | 18 40 | ♀ a Regulo<br>ab Arcturo | 45 46 30<br>30 24 00 | | ♎ 11 06 31 | 1 39 42 B | W |
| Dec. 18 | 19 20 | ♀ ab Arcturo<br>a Spica Virginis | 44 08 00<br>36 26 30 | | ♏ 25 30 19 | 2 31 58 B | W |
| MDCLXXVII.<br>Jan. 16 | 18 43<br>50 | ♀ ab Ophiuchi β<br>ab Antare. | 27 59 00<br>25 32 00 | | ♑ 0 06 18 | 1 25 35 B | W |
| | | | | | | | |

| MDCLXXVIII. Menf. Die. Styl. Vet. | Temp. Ap. h m | VENERIS a FIXIS. | Diftantiæ Obfervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo ♀ s ° ′ ″ | Latitudo. ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Feb. 5 | 5 56 | ♀ a Capite Andromedæ α<br>a Palilicio | 23 50 40<br>51 51 30 | | ♈ 13 56 05 | 2 10 12 B | W |
| Julii. 8 | 14 43<br>15 00 | ♀ a Palilicio<br>a Medufæ Capite | 7 18 45<br>32 06 35 | | ♊ 12 05 51 | 2 46 42 A | W |
| 22 | 15 11 | ♀ a Capella<br>a Palilicio | 26 47 25<br>22 12 40 | | ♊ 27 17 48 | 2 07 01 A | W |
| Sept. 3 | 15 17<br>27 | ♀ a Procyone<br>a Polluce | 30 06 25<br>28 48 30 | | ♌ 16 57 49 | 0 22 57 B | W |
| 11 | 17 10 | ♀ a Polluce<br>a lucido pede Gemini | 38 16 50<br>52 30 40 | | ♌ 26 42 00<br>26 41 53 | 0 45 B | W p. Eph. |
| MDCLXXXI. | | | | | | | |
| Feb. 22 | 7 04 | ♀ a Palilicio<br>ab Andromedæ μ | 39 48 20<br>28 48 20 | | ♈ 25 58 49 | 0 49 50 B | W |
| 25 | 6 54 | ♀ a Palilicio<br>a 2$^{da}$ Arietis | 36 26 10<br>7 35 40 | | ♈ 29 24 15 | 0 52 40 B | W |
| Mar. 24 | 7 31 | ♀ a calce Caftoris μ<br>a lucido latere Perfei | 31 31 40<br>27 28 20 | | ♉ 29 30 34 | 2 40 21 B | W |
| April. 8 | 7 50 | ♀ a Polluce<br>ab Aurigæ ε | 34 00 10<br>17 29 20 | | ♊ 14 49 34 | 3 25 22 B | W |
| 21 | 9 01 | ♀ a Capella<br>a Polluce | 21 11 10<br>22 07 00 | | ♊ 26 46 57 | 3 43 31 B | W |
| Sept. 4 | 16 34 | ♀ a Procyone<br>a Polluce | 21 01 30<br>21 01 00 | | ♌ 7 03 00 | 1 41 00 A | W |
| MDCLXXXVI. | | | | | | | |
| Feb. 11 | 6 16 | ♀ a Capite Andromedæ<br>a Palilicio | 24 18 20<br>46 54 40 | | ♈ 19 07 45 | 3 02 36 B | W |

# MERCURII LOCA

## Ab OBSERVATIONIBUS puris & non purgatis a Refractionibus deducta.

| MDCLXXVI. Menf. Die. Styl. Vet. | Temp. Ap. h m | MERCURII a FIXIS. | Diftantiæ Obfervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo. ☿ s ° ′ ″ | Latitudo. s ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Nov. 24 | 19 26 | ☿ a Spica Virginis<br>ab Arcturo | 45 28 20<br>43 14 10 | | ♏ 24 29 46 | 2 46 54 B | W |
| MDCLXXVII. | | | | | | | |
| Nov. 9 | 18 49 | ☿ ab Arcturo<br>a Spica Virginis | 33 55 00<br>20 31 10 | | ♏ 9 21 44 | 2 33 01 B | W |
| MDCLXXIX. | | | | | | | |
| April 30 | 8 50<br>56 | ☿ ab Aurigæ β<br>a Procyone | 23 07 00<br>43 13 00 | | ♊ 11 50 02 | 2 31 30 B | W |
| May 2 | 8 55<br>9 05 | ☿ ab Aurigæ β<br>a Procyone | 21 58 25<br>41 08 05 | | ♊ 14 07 31 | 2 26 58 B | W |
| 5 | 9 00<br>8 | ☿ a Polluce<br>ab Aurigæ β | 31 56 20<br>20 51 45 | | ♊ 17 02 43 | 2 16 41 B | W |

| MDCLXXIX. Menſ. Die. Styl. Vet. | Temp. Ap. h m | MERCURII a FIXIS. | Diſtantiæ Obſervatæ ° ′ ″ | Correctæ per Refr. ° ′ ″ | Longitudo. ☿ s ° ′ ″ | Latitudo. ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Oct. 19 | 17 57<br>18 07 | ☿ ab Arcturo<br>a Regulo | 28 52 35<br>55 34 20 | | ♎ 20 56 43 | 2 05 55 B | W |
| MDCLXXX.<br>Apr. 14 | 8 27<br>45 | ☿ a Procyone<br>a lucido latere Perſei | 57 47 30<br>27 21 20 | | ♉ 26 02 42 | 2 46 30 B | W |
| 15 | 8 32 | ☿ a calce Caſtoris<br>a lucido latere Perſei α | 34 00 50<br>27 20 00 | | ♉ 27 00 14 | 2 45 42 B | W |

# LUNÆ a Fixis Diſtantiæ Sextante

GRENOVICI in Obſervatorio Regio obſervatæ, ab Anno 1676 exeunte ad Annum 1689 fere completum, per *J. F.* Cum Locis viſibilibus Centri ejus inde ſupputatis per *Abra. Sharp* & *Jo. Witty*, Parallaxibus & Refractionibus purgandis & corrigendis.

| MDCLXXVII. Menſ. Die. Styl. Vet. | Temp. Ap. h ′ ″ | Diſtantiæ Obſervatæ a Fixis. | Limbi ☽ ° ′ ″ | Centri ° ′ ″ | Long. viſa Centri ☽ s ° ′ ″ | Lat. viſa Centri ☽ ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| Jan. ♂ 16 | 16 54 30 | ☽ lim. pr. ab Ophiuchi Yed<br>rem. & ſeq. a Spica ♍ | 22 50 15<br>27 34 55 | 23 06 15<br>27 18 55 | ♏ 16 40 04 | 3 02 42 A | S<br>W |
| ☽ 29 | 6 44 00 | ☽ l. pr. a ped. Androm. Al.<br>rem. a cornu ♉ boreo β | 25 34 45<br>36 40 30 | 25 49 40<br>36 25 35 | ♉ 11 41 52<br>11 41 53 | 2 00 29 B<br>2 00 27 | S<br>W |
| ☿ 31 | 7 34 52 | ☽ lim. pr. a genu Perſei ε<br>rem. a Polluce | 19 30 28<br>43 09 27 | 19 45 25<br>42 54 30 | ♊ 6 16 26<br>6 16 21 | 0 01 58 A<br>0 01 52 | S<br>W |
| Feb. ♃ 8 | 16 12 49 | ☽ l. rem. a cauda Leonis β<br>pr. a Spica Virginis α | 18 24 42<br>30 29 40 | 18 09 05<br>30 45 17 | ♍ 18 44 29<br>18 44 27 | 5 48 02 A<br>5 48 02 | S<br>W |
| Mar ♂ 27 | 8 29 44 | ☽ l. rem. a cornu ♉ boreo<br>re. a ſeq. hum. Orionis | 10 30 50<br>20 51 55 | 10 16 00<br>20 37 05 | ♊ 9 58 44<br>9 58 45 | 0 59 31 A<br>0 59 28 | S<br>W |
| ♃ 29 | 8 27 14 | ☽ l. rem. & Auſt. a Polluce<br>prox a Capella | 17 59 45<br>30 16 30 | 17 44 55<br>30 31 20 | ♋ 3 52 33 | 3 03 06 A | W |
| ♀ 30 | 8 47 15 | ☽ lim. rem. a Polluce<br>prox. a calce Caſtoris | 11 14 53<br>15 14 38 | 10 59 50<br>15 29 30 | ♋ 15 58 47<br>15 58 57 | 3 59 14 A<br>3 59 10 | S<br>W |
| Apr. ♂ 3 | 8 38 35 | ☽ l. prox. a cauda Leonis β<br>a Regulo | 21 42 34<br>11 41 40 | 21 58 10<br>11 57 16 | ♍ 5 32 54 | 5 48 38 A | S<br>W |
| ♀ 6 | 8 46 44 | ☽ lim. prox. a cingulo ♍ δ<br>rem. a Spica Virginis | 15 51 05<br>4 17 00 | 16 07 15<br>4 00 50 | ♎ 16 14 17<br>16 14 02 | 4 34 45 A<br>4 34 50 | S<br>W |
| ♄ 28 | 10 05 40 | ☽ l. rem. a Juba Leonis γ<br>prox. & præ. a Polluce | 23 33 30<br>21 14 00 | 23 18 40<br>21 28 50 | ♌ 6 32 59<br>6 33 16 | 5 24 25 A<br>5 26 13 | S<br>W |
| May ♃ 30 | 10 08 54 | ☽ lim. prox. a Leonis ε<br>rem. a Spica Virginis | 25 05 56<br>14 34 44 | 25 21 41<br>14 19 00 | ♎ 5 24 28<br>5 24 26 | 5 25 39 A<br>5 25 35 | S<br>W |
| Jun. ☉ 10 | 14 52 34 | ☽ l. rem. a Markab Pegaſi<br>prox. ab Arietis α | 15 27 10<br>44 56 26 | 15 11 05<br>45 12 30 | ♓ 17 53 51 | 4 15 40 B | S<br>W |
| ☿ 27 | 9 38 34 | ☽ Centrum ab Arcturo<br>lim. rem. ab Antare. | 36 08 32<br>51 11 17 | 36 08 32<br>50 55 55 | ♎ 14 08 54<br>14 08 57 | 4 47 52 A<br>4 47 50 | S<br>W |
| ♃ 28 | 10 02 15 | ☽ l. prox. ab Arcturo<br>rem. ab Antare. | 35 24 12<br>37 47 05 | 35 40 00<br>37 31 15 | ♎ 27 38 20<br>27 38 23 | 3 54 30 A<br>3 54 25 | S<br>W |

| MDCLXXVII. Menf. Die. Styl. Vet. | Temp. Ap. h ′ ″ | Diftantiæ obfervatæ à FIXIS. | Limbi ☽ ° ′ ″ | Centri ° ′ ″ | Long: vifa Centri ☽ ° ′ ″ | Lat. vifa Centri ☽ ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|
| Julii ☽ 2 | 10 57 23 | ☽ l. prox. ab Ophiuchi β<br>rem. a cornu Caprico. | 27 03 39<br>34 32 18 | 27 20 20<br>34 15 40 | ♐ 25 26 37<br>25 26 39 | 0 59 11<br>0 59 10 | B | S<br>W |
| ☿ 4 | 11 02 11 | ☽ lim. rem. ab Aquarii β<br>prox. ab Aquilæ α | 23 42 33<br>25 55 35 | 23 25 48<br>26 12 20 | ♑ 25 59 37<br>25 59 39 | 3 08 24<br>3 08 21 | B | S<br>W |
| ♀ 6 | 12 05 27 | ☽ l. rem. a fup. contig. ad ♑ α<br>prox. a Pegafi θ | 27 43 00<br>13 04 00 | 27 26 35<br>13 20 25 | ♒ 26 43 00<br>26 42 56 | 4 12 16<br>4 12 12 | B | S<br>W |
| Aug. ♂ 7 | 12 18 52 | ☽ l. rem. a capite Androm.<br>prox. a Capella | 31 44 16<br>49 23 16 | 31 28 35<br>49 38 55 | ♉ 1 00 39<br>1 00 37 | 1 43 23<br>1 43 23 | B | S<br>W |
| 28 | 8 04 09 | ☽ lim. rem. ab Aquilæ α<br>prox. ab Opiuchi α | 26 11 45<br>43 10 25 | 25 55 20<br>43 26 50 | ♑ 26 57 15 | 3 23 53 | B | S<br>W |
| 31 | 9 23 07 | ☽ lim. prox. a Pegafi ζ<br>rem. a lucida Arietis | 13 23 24<br>51 32 18 | 13 40 00<br>51 15 50 | ♓ 11 47 41<br>11 47 52 | 4 02 07<br>4 01 50 | B | S<br>W |
| Sept. ☽ 9 | 16 42 11 | ☽ lim. prox. a Caftore<br>rem. a Palilicio | 14 16 57<br>37 14 30 | 14 31 47<br>36 59 40 | ♋ 12 22 52<br>12 22 51 | 4 04 24<br>4 04 24 | A | S<br>W |
| ☿ 11 | 16 15 38 | ☽ lim. rem. a Polluce<br>rem. a Procyone | 21 18 48<br>18 21 57 | 21 03 55<br>18 07 05 | ♌ 6 11 55<br>6 11 52 | 5 12 58<br>5 13 00 | A | S<br>W |
| Oct. ☿ 24 | 6 32 16 | ☽ lim. prox. ab ore Pegafi<br>rem. ab Arietis γ | 17 48 30<br>57 30 27 | 18 04 43<br>57 14 15 | ♓ 1 10 59<br>1 10 57 | 4 25 10<br>4 25 11 | B | S<br>S |
| ♃ 25 | 6 05 20 | ☽ l. pr. a Markab. Pegafi<br>ab hum. præd. Aquarii | 15 30 37<br>26 03 00 | 15 46 44<br>26 19 07 | ♓ 15 00 06<br>15 00 00 | 4 07 04<br>4 07 10 | B | S<br>W |
| Dec. 26 | 8 29 34 | ☽ l. pr. a cornu ♉ boreo β<br>rem. a Caftore. | 9 28 50<br>26 12 32 | 9 43 40<br>25 57 40 | ♊ 23 10 49<br>23 10 48 | 2 55 09<br>2 55 09 | A | S<br>W |
| **MDCLXXVIII.** | | | | | | | | |
| Jan. ♀ 18 | 6 30 38 | ☽ lim. rem. a Palilicio<br>prox. ab Andromed. β | 37 30 49<br>24 19 40 | 37 15 05<br>24 35 25 | ♈ 28 38 54<br>28 38 55 | 1 29 36<br>1 29 32 | B | S<br>W |
| ☽ 21 | 7 49 45 | ☽ l. rem. ab hum. Orion. præ.<br>rem. a Polluce | 17 38 50<br>42 17 31 | 17 23 35<br>42 02 16 | ♊ 7 31 33<br>7 31 17 | 1 50 55<br>1 50 48 | A | S<br>W |
| ♂ 22 | 7 08 19 | ☽ l. rem. ab hum. Orion. feq.<br>rem a Caftore | 14 17 25<br>29 21 44 | 14 02 19<br>29 06 38 | ♊ 19 32 37<br>19 32 35 | 2 49 17<br>2 49 19 | A | S<br>W |
| Feb. ☽ 18 | 6 54 55 | ☽ l. rem. ab hum. Orion. feq.<br>rem. a Polluce | 15 56 50<br>34 31 30 | 15 41 42<br>34 16 22 | ♊ 15 45 56<br>15. 45 42 | 2 47 02<br>2 46 53 | A | S<br>W |
| Jun. ☽ 17 | 10 19 53 | ☽ lim. rem. ab Arcturo<br>rem. a Scorpii δ | 35 10 35<br>44 41 00 | 34 55 45<br>44 26 10 | ♎ 13 38 47<br>13 38 26 | 3 29 11<br>3 29 21 | A | S<br>W |
| Julii ☿ 17 | 9 38 53 | ☽ lim. prox a Serpent. α<br>rem. a Scorpii δ | 25 41 25<br>11 29 00 | 25 56 55<br>11 13 35 | ♏ 16 58 35<br>16 58 52 | 0 24 37<br>0 24 24 | A | S<br>W |
| Oct. ☿ 16 | 9 07 07 | ☽ l. pr. a Markab. Pegafi.<br>rem. ab Arietis α | 16 48 10<br>40 21 00 | 17 04 50<br>40 04 20 | ♓ 23 26 08<br>23 26 11 | 2 53 22<br>2 53 11 | B | S<br>W |
| ♀ 18 | 9 17 54 | ☽ l. rem. a lucida Arietis<br>prox. a Markab. Peg. | 14 06 40<br>37 59 00 | 13 50 10<br>38 15 30 | ♈ 22 58 25<br>22 58 31 | 0 32 15<br>0 32 09 | B | S<br>W |
| ♄ 19 | 11 00 08 | ☽ lim. rem. a lucid. Arietis<br>prox. a lucida Plejadum | 12 09 25<br>17 34 25 | 11 53 00<br>17 50 50 | ♉ 8 18 25<br>8 18 24 | 0 46 16<br>0 46 10 | A | I.F.<br>W |
| No. ☽ 11 | 5 39 05 | ☽ lim. prox. a Pegafi ε<br>rem. ab Arietis α | 18 49 20<br>60 02 05 | 19 05 40<br>59 45 45 | ♓ 3 12 16<br>3 12 18 | 3 52 25<br>3 52 23 | B | S<br>W |
| **MDCLXXIX.** | | | | | | | | |
| Jan. ♂ 14 | 7 24 44 | ☽ lim. rem. a Procyone<br>prox. a Palilicio | 13 23 05<br>37 53 50 | 13 07 50<br>38 09 30 | ♋ 13 37 22<br>13 37 20 | 5 14 57<br>5 13 56 | A | S<br>W |
| Feb. ☿ 05 | 8 16 44 | ☽ lim. prox. ab Arietis β<br>rem. a Palilicio | 10 16 35<br>31 36 50 | 10 32 45<br>31 20 45 | ♉ 4 13 35<br>4 13 30 | 0 57 13<br>0 57 15 | A | S<br>W |
| ♃ 06 | 8 31 40 | ☽ l. prox. ab Algol Meduf.<br>rem. a Palilicio | 24 30 45<br>17 33 10 | 24 46 35<br>17 17 20 | ♉ 18 17 40<br>18 17 41 | 2 09 25<br>2 08 51 | A | S<br>W |
| ♀ 7 | 7 38 18 | ☽ l. prox. ab Algol. Meduf.<br>rem. a Tauri ζ | 27 04 40<br>19 04 15 | 27 20 30<br>18 48 25 | ♊ 1 30 10<br>1 30 12 | 3 12 38<br>3 12 40 | A | S<br>W |

| MDCLXXIX. Menſ. Die. Styl. Vet. | Temp. Ap. h ′ ″ | Diſtantiæ Obſervatæ à FIXIS. | Limbi ☽ ° ′ ″ | Centri ° ′ ″ | Long. viſa Centri ☽ ° ′ ″ | Lat. viſa Centri ☽ ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|
| Feb. ♂ 11 | 6 42 58 | ☽ lim. prox. a Procyone<br>prox. a Palilicio | 10 14 25<br>46 52 00 | 10 29 30<br>47 07 05 | ♋ 22 38 55<br>22 39 05 | 5 33 07<br>5 33 00 | A | S<br>W |
| Mart. 11 | 8 45 12 | ☽ l. r. ab Urſæ majoris μ<br>prox. a calce Caſtoris | 37 37 00<br>31 42 30 | 37 22 00<br>31 57 30 | ♌ 2 27 42<br>2 27 47 | 5 46 18<br>5 46 36 | A | S<br>W |
| May ♂ 13 | 10 02 16 | ☽ lim. prox. a Spica ♍ˢ<br>prox. ab Arcturo | 24 42 30<br>37 48 20 | 24 58 00<br>38 03 50 | ♏ 14 11 20<br>14 11 30 | 0 44 19<br>0 44 20 | B | S<br>W |
| ☿ 14 | 11 27 49 | ☽ lim. prox. a Serpentis α<br>prox. a Spica ♍ⁱˢ | 25 16 45<br>37 49 40 | 25 32 05<br>38 05 00 | ♏ 27 16 30<br>27 16 29 | 1 46 16<br>1 46 13 | B | S<br>W |
| Jun. ♀ 11 | 12 27 31 | ☽ lim. r. a capite Herculis<br>rem. a Sagittarii π | 35 32 15<br>36 06 30 | 35 16 50<br>35 51 05 | ♐ 5 56 17<br>5 56 18 | 2 26 20<br>2 26 14 | B | S<br>W |
| Julii ☿ 9 | 10 43 33 | ☽ lim. prox. ab Ophiuchi α<br>r. a præ. cont. in cornu ♑ | 29 06 30<br>46 24 50 | 29 22 00<br>46 09 20 | ♐ 13 07 55<br>13 07 54 | 3 00 44<br>3 00 46 | B | S<br>W |
| Aug. ☽ 4 | 8 49 01 | ☽ lim. prox. a Serpentis α<br>rem. a Sagittarii π | 24 14 30<br>47 07 20 | 24 29 30<br>46 52 10 | ♏<br>24 54 31 | <br>2 04 45 | B | S<br>W |
| ☿ 6 | 9 00 54 | ☽ l. prox. a capite Herculis<br>rem. a Sagittarii π | 34 24 00<br>21 04 10 | 34 39 25<br>20 48 45 | ♐ 21 05 22<br>21 05 27 | 3 45 12<br>3 45 11 | B | S<br>W |
| ♃ 7 | 9 08 44 | ☽ lim. prox. a Serpentis η<br>rem. a Capricorni β | 16 23 45<br>26 15 05 | 16 39 25<br>25 59 35 | ♑ 3 30 59<br>3 31 11 | 4 18 13<br>4 18 08 | B | S<br>W |
| ♄ 9 | 9 25 07 | ☽ lim. prox. ab Aquila<br>rem. ab Aquarii β | 25 15 05<br>18 07 50 | 25 31 15<br>17 51 40 | ♒<br>1 32 02 | <br>4 06 48 | B | S<br>W |
| ☉ 10 | 14 00 39 | ☽ lim. r. a Markab Pegaſi<br>prox. ab Aquilæ α | 34 04 25<br>32 07 10 | 33 48 00<br>32 23 40 | ♒ 18 17 04<br>18 17 14 | 3 47 37<br>3 47 33 | B | S<br>W |
| ☾ 11 | 10 18 39 | ☽ lim. prox. ab Ore Pegaſi<br>rem. ab Algenib Pegaſi | 19 17 45<br>34 33 45 | 19 34 15<br>34 17 15 | ♓ 1 25 41<br>1 25 49 | 2 56 30<br>2 56 30 | B | S<br>W |
| ♂ 12 | 10 31 27 | ☽ l. prox. a Markab Pegaſi<br>prox. a lucida Arietis | 17 22 30<br>46 41 10 | 17 39 10<br>46 57 50 | ♓ 16 36 10<br>16 36 12 | 1 54 55<br>1 54 54 | B | S<br>W |
| ♃ 14 | 11 10 25 | ☽ l. r. a cap. Andromedæ β<br>rem. ab Aquarii λ | 27 27 20<br>40 06 00 | 27 10 30<br>39 49 20 | ♈ 16 55 16<br>16 55 35 | <br>0 37 11 | A | S<br>W |
| ♀ 15 | 14 16 33 | ☽ lim. r. ab Andromedæ β<br>prox. a lucida Pleiadum | 28 59 40<br>22 49 10 | 28 43 20<br>23 05 30 | ♉<br>3 11 35 | <br>1 54 54 | A | S<br>W |
| ♃ 21 | 16 18 10 | ☽ lim. rem. a Caſtore<br>r. a lucid. pede Orionis | 18 49 40<br>48 07 45 | 18 34 20<br>47 52 30 | ♋ 25 40 11<br>25 40 10 | 5 40 54<br>5 40 50 | A | S<br>W |
| Oct. ☉ 19 | 16 50 47 | ☽ lim. rem. a Leonis δ<br>rem. a corde Hydræ | 22 23 50<br>33 38 55 | 22 09 00<br>33 24 05 | ♍ 20 49 02<br>20 49 03 | 2 56 40<br>2 56 42 | A | S<br>W |
| Nov. ♄ 1 | 7 50 28 | ☽ lim. prox. ab Ore Pegaſi<br>rem. ab Aquarii λ | 18 31 05<br>11 36 25 | 18 47 15<br>11 20 15 | ♒ 26 23 49<br>26 23 41 | 3 22 05<br>3 22 15 | B | S<br>W |
| ☉ 9 | 14 51 33 | ☽ lim. rem. a Tauri ε<br>prox. ab Aurigæ β | 24 19 10<br>26 42 30 | 24 03 00<br>26 58 45 | ♊ 27 55 33<br>27 55 37 | 5 23 51<br>5 23 43 | A | S<br>W |
| Dec. ♂ 2 | 5 37 24 | ☽ l. prox. ab Andromedæ δ<br>pr. ab hum. ſeq: ♒ⁱⁱ α | 25 02 00<br>50 13 00 | 25 18 20<br>50 29 20 | ♈ 18 18 32<br>18 18 29 | 0 56 43<br>0 56 40 | A | S<br>W |
| MDCLXXX. | | | | | | | | |
| Feb. ☽ 9 | 16 49 44 | ☽ lim. r. a Spica Virginis<br>rem. ab Arcturo | 15 33 10<br>32 53 35 | 15 18 20<br>32 38 45 | ♏ 4 18 48<br>4 18 49 | 1 21 15<br>1 21 12 | B | S<br>W |
| ♂ 10 | 17 58 46 | ☽ lim. rem. a Bootis ε<br>rem. a Virginis γ | 43 51 50<br>41 05 45 | 43 36 50<br>40 50 45 | ♏ 16 37 04<br>16 37 04 | 2 17 56<br>2 17 45 | B | S<br>W |
| Mart. 1 | 7 24 27 | ☽ lim. rem. a Leonis γ<br>prox. a Polluce | 18 23 55<br>26 41 05 | 18 08 35<br>26 56 25 | ♌ 13 10 38<br>13 10 33 | 4 54 10<br>4 54 12 | A | S<br>W |
| 2 | 7 51 20 | ☽ lim. prox. a Leonis ε<br>a Procyone | 16 43 50<br>35 52 35 | 16 59 00<br>36 08 45 | ♌ 26 07 40<br>26 07 40 | 4 08 43<br>4 08 43 | A | S<br>W |
| 4 | 7 58 12 | ☽ lim. rem. a Leonis γ<br>ab Arcturo | 29 04 20<br>42 43 00 | 28 49 20<br>42 28 00 | ♌ 21 51 01<br>21 51 04 | 2 11 18<br>2 11 14 | A | S<br>W |

| MDCLXXX. Mens. Die. Styl. Vet. | | Temp. Ap. h ' " | Distantiæ Observatæ à FIXIS. | Limbi ☽ ° ' " | Centri ° ' " | Long. visa Centri ☽ s ° ' " | Lat. visa Centri ☽ ° ' " | | |
|---|---|---|---|---|---|---|---|---|---|
| Mart. | 23 | 8 16 57 | ☽ lim. rem. ab Aurigæ ι | 19 07 40 | 18 51 20 | ♊ 0 56 27 | 4 45 10 | A | W |
| | | | rem. ab Orionis δ | 25 13 10 | 24 56 50 | 0 56 38 | 4 45 40 | | S |
| | 24 | 8 28 22 | ☽ lim. rem. ab Aurigæ ι | 15 58 55 | 15 42 45 | ♊ 15 43 9 | 4 54 10 | A | W |
| | | | a lucid. pede Gemini γ | 19 11 50 | 18 55 40 | 15 42 41 | 5 54 28 | | S |
| | 25 | 8 25 05 | ☽ lim. prox. ab Orionis α | 11 18 20 | 11 34 00 | ♊ 29 48 55 | 5 51 28 | A | W |
| | | | a Procyone | 23 41 00 | 23 25 20 | 29 48 58 | 5 51 31 | | S |
| | 26 | 8 38 06 | ☽ lim. pr. a Geminorum θ | 18 03 45 | 18 19 30 | ♋ 13 48 21 | 5 53 41 | A | W |
| | | | rem. a Regulo | 42 15 15 | 41 59 30 | 13 48 19 | 5 53 48 | | S |
| | 27 | 9 04 38 | ☽ lim. prox. a Castore | 19 16 30 | 19 32 00 | ♋ 27 26 45 | 5 38 30 | A | W |
| | | | rem. a Regulo | 28 48 45 | 28 33 15 | 27 26 45 | 5 38 32 | | S |
| | 28 | 8 29 31 | ☽ lim. pr. ab Asello Boreo | 10 45 10 | 11 00 45 | ♌ 10 18 59 | 5 08 54 | A | W |
| | | | rem. a Regulo | 16 19 00 | 16 03 25 | 10 19 05 | 5 08 55 | | S |
| | 29 | 9 50 51 | ☽ l. prox. a Leonis capite ε | 15 41 40 | 15 56 50 | ♌ 23 38 22 | 4 27 12 | A | W |
| | | | rem. a Vindemiatrice | 46 30 40 | 46 15 30 | 23 38 27 | 4 27 12 | | S |
| | 30 | 8 51 04 | ☽ lim. prox. a Leonis γ | 16 02 10 | 16 17 15 | ♍ 5 46 21 | 3 33 13 | A | W |
| | | | a Vindemiatrice | 35 39 50 | 35 24 45 | 5 46 30 | 3 33 07 | | S |
| Apr. | 2 | 9 31 44 | ☽ lim. prox. a Virginis δ | 10 15 10 | 10 30 00 | ♎ 12 27 18 | 0 21 46 | A | W |
| | | | a Corde Hydræ α | 52 47 30 | 53 02 20 | 12 27 18 | 0 21 39 | | S |
| | 21 | 9 05 11 | ☽ lim. prox. a Capella | 29 16 35 | 29 32 55 | ♊ 24 52 29 | 5 45 56 | A | S |
| | | | rem. a λ Geminorum. | 19 36 40 | 19 20 40 | | | | |
| | 22 | 8 52 30 | ☽ lim. prox. ab Aurigæ β | 30 13 40 | 30 29 45 | ♋ 9 07 49 | 5 54 58 | A | W |
| | | | rem. a Geminor. λ | 5 26 10 | 5 10 05 | 9 07 48 | 5 55 03 | | S |
| | 25 | 9 41 05 | ☽ lim. prox. a Leonis γ | 14 37 25 | 14 52 50 | | | | |
| | | | prox. a Castore. | 36 55 00 | 37 10 15 | | | | |
| | 26 | 9 30 25 | ☽ lim. prox. a Leonis ε | 20 57 30 | 21 12 35 | ♍ 2 39 51 | 3 48 15 | A | W |
| | | | r. a Vindemiatrice | 38 23 10 | 38 08 15 | 2 39 58 | 3 48 16 | | S |
| | 27 | 9 41 59 | ☽ lim. rem. a Virginis γ | 21 36 10 | 21 21 10 | ♍ 15 07 20 | 2 49 15 | A | W |
| | | | prox. a Leonis θ | 13 39 55 | 13 54 50 | 15 07 20 | 2 49 18 | | S |
| | 28 | 9 52 54 | ☽ l. prox. a cauda Leonis | 17 04 15 | 17 19 10 | ♍ 27 20 24 | 1 47 47 | A | W |
| | | | rem. a Virginis ζ | 23 04 20 | 22 49 25 | 27 20 26 | 1 47 56 | | S |
| May | 1 | 9 13 20 | ☽ l. prox. ab Arcturo | 31 32 50 | 31 47 40 | ♏ 2 50 36 | 1 39 47 | B | W |
| | | | a Spica Virginis | 13 42 15 | 13 57 05 | 2 50 37 | 1 39 49 | | S |
| Jun. | 8 | 14 21 28 | ☽ l. rem. a Collo Pegasi ζ | 19 18 10 | 19 02 20 | ♓ 19 58 21 | 0 29 40 | B | W |
| | | | prox. a lucida Arietis | 43 44 30 | 44 00 20 | 19 58 22 | 0 29 39 | | S |
| | 24 | 10 24 05 | ☽ lim. prox. a Bootis ε | 39 22 10 | 39 37 00 | ♎ 26 15 49 | 1 05 42 | B | W |
| | | | rem. a Scorpii β | 32 43 40 | 32 28 50 | 26 15 59 | 1 05 35 | | S |
| Julii | 27 | 9 23 06 | ☽ l. r. a seq. contig. in cor. ♑ | 25 37 25 | 25 22 35 | ♑ 4 03 06 | 4 17 35 | B | W |
| | | | prox. ab Ophiuchi | 26 32 10 | 26 47 15 | | | | S |
| | 29 | 9 03 40 | ☽ lim. prox. ab Aquilæ α | 25 29 15 | 25 44 45 | ♑ 29 38 05 | 3 40 21 | B | S |
| | | | a Sagittarii π | 17 40 35 | 17 56 05 | 29 38 04 | 3 40 22 | | W |
| Aug. | 3 | 11 22 23 | ☽ l. rem. a Markab Pegasi | 29 23 45 | 29 07 40 | ♈ 9 31 08 | 1 38 56 | A | W |
| | | | prox. a lucida Arietis | 26 00 05 | 26 16 10 | 9 30 41 | 1 38 28 | | S |
| | 21 | 9 03 15 | ☽ lim. rem. a cap. Ophiuchi | 34 18 15 | 34 03 25 | ♐ 5 03 00 | 3 58 56 | B | W |
| | | | ab hum. Sagittarii σ | 33 57 05 | 33 42 15 | 5 03 16 | 3 59 06 | | S |
| | 26 | 11 10 56 | ☽ lim. prox. ab Aquilæ α | 27 42 50 | 27 58 30 | ♒ 8 18 36 | 3 23 01 | B | W |
| | | | rem. a Markab. Peg. | 43 06 00 | 42 50 20 | | | | |
| Sept. | 5 | 15 30 28 | ☽ lim. rem. a Tauri ε | 19 33 25 | 19 17 30 | ♋ 3 49 24 | 5 51 28 | A | S |
| | | | prox. a Castore | 19 37 30 | 19 53 25 | 3 49 16 | 5 51 30 | | W |
| | 6 | 16 43 20 | ☽ lim. prox. a Polluce | 11 59 05 | 12 15 00 | ♋ 18 18 13 | 5 34 56 | A | S |
| | | | rem. a Geminorum λ | 4 13 35 | 3 57 40 | 18 18 14 | 5 35 00 | | W |
| | 20 | 7 09 47 | ☽ lim. prox. a Serpentis η | 16 32 40 | 16 47 45 | ♑ 6 11 33 | 4 23 48 | B | W |
| | | | rem. a Capricorni β | 23 35 25 | 23 20 20 | | | | |
| | 22 | 7 50 37 | ☽ lim. prox. a Capricorni α | 18 32 15 | 18 47 35 | | | | |
| | | | ab Antinoi θ | 14 51 30 | 15 06 50 | | | | |

| MDCLXXX. Menſ. Die. Styl. Vet. | Temp. Ap. h ' " | Diſtantiæ obſervatæ a FIXIS. | Limbi ☽ ° ' " | Centri ° ' " | Long. viſa Centri ☽ s ° ' " | Lat. viſa Centri ☽ ° ' " | |
|---|---|---|---|---|---|---|---|
| Sept. 23 | 10 00 01 | ☽ l. prox. a Delphini γ | 29 32 00 | 29 47 40 | ♒ 14 04 41 | 2 57 30 B | S |
| | | ab Aquarii λ | 23 00 30 | 23 16 10 | 14 04 51 | 2 57 55 | W |
| 26 | 15 01 18 | ☽ l. rem. ab Arietis α | 35 04 45 | 34 48 25 | ♓ 29 50 06 | 0 30 52 A | S |
| | | prox. a Markab | 22 17 50 | 22 34 10 | 29 50 02 | 0 30 52 | W |
| 28 | 9 05 42 | ☽ l. rem. ab Andromedæ δ | 29 17 40 | 29 01 05 | ♈ 26 47 14 | 3 16 59 A | S |
| | | ab Aquarii λ | 49 59 45 | 49 43 10 | 26 47 16 | 3 10 53 | W |
| Oct. 16 | 6 35 32 | ☽ l. prox. ab Herculis α | 33 36 30 | 33 51 20 | ♐ 20 13 58 | 4 22 37 B | S |
| | | rem a Sagittarii π | 21 59 40 | 21 44 50 | | | W |
| 21 | 7 20 53 | ☽ l. rem. a Pegaſi γ | 43 27 10 | 43 11 30 | ♒ 22 17 55 | 2 22 29 B | S |
| | | prox. ab Aquarii β | 6 50 30 | 7 06 10 | 22 17 50 | 2 22 22 | W |
| 23 | 6 37 27 | ☽ l. rem. a Pegaſi β | 31 47 20 | 31 31 10 | ♓ 19 11 48 | | S |
| | | prox. ab Aquarii β | 31 03 20 | 31 19 30 | 19 11 48 | 0 05 07 B | W |
| 25 | 8 20 38 | ☽ l. prox. ab Aquarii α | 51 26 10 | 51 42 45 | ♈ 19 09 39 | 2 31 11 A | S |
| | | ab Androm. δ | 26 38 40 | 26 55 15 | 19 09 37 | 2 31 14 | W |
| 29 | 10 22 48 | ☽ l. prox. ab Orionis α | 10 20 10 | 10 36 50 | ♊ 21 37 51 | 4 46 25 A | S |
| | | rem. a Palilicio | 16 32 05 | 16 15 25 | 21 37 46 | 4 46 24 | W |
| Nov. 22 | 7 19 36 | ☽ l. rem. a lucid. Plejadum | 29 53 50 | 29 37 20 | ♈ 26 47 47 | 3 12 52 A | S |
| | | prox. ab Andromed. δ | 28 46 25 | 29 02 55 | 26 47 42 | 3 12 50 | W |
| 24 | 7 10 08 | ☽ l. rem. a Capella | 34 35 30 | 34 18 50 | ♉ 27 03 12 | 5 05 58 A | S |
| | | a Palilicio | 8 31 30 | 8 14 50 | 27 03 18 | 5 05 56 | W |
| 27 | 9 40 04 | ☽ l. prox. a Polluce | 12 29 30 | 12 45 55 | ♋ 14 35 18 | 5 23 32 A | S |
| | | rem. a Geminorum γ | 10 15 30 | 9 59 05 | 14 35 13 | 5 23 38 | W |
| Dec. 18 | 7 43 00 | ☽ l. pr. ab Andromdæ α | 27 17 40 | 27 33 35 | ♈ 7 49 18 | 1 48 26 A | S |
| | | rem. a Ceti α | 33 47 15 | 33 31 20 | 7 49 13 | 1 48 17 | W |
| 21 | 7 49 23 | ☽ l. rem. a Palilicio | 14 41 20 | 14 24 50 | ♉ 20 52 00 | 4 50 27 A | S |
| | | pr. ab Algol Meduſæ | 26 58 30 | 27 15 00 | 20 51 58 | 4 50 25 | W |
| MDCLXXXI. | | | | | | | |
| Jan. 16 | 6 15 13 | ☽ l. rem. a Palilicio | 33 58 25 | 33 42 25 | ♉ 1 32 50 | | S |
| | | pr. a ſecunda Arietis β | 12 16 45 | 12 32 45 | 1 32 18 | 3 54 40 A | J.F. |
| 21 | 7 29 47 | ☽ l. rem. a Polluce | 12 50 50 | 12 34 30 | ♋ 14 58 44 | 5 29 17 A | S |
| | | prox. a Palilicio | 39 11 50 | 39 28 10 | 14 58 44 | 5 29 27 | W |
| 22 | 8 44 39 | ☽ l. prox. a Caſtore | 20 17 00 | 20 33 10 | ♌ 0 16 00 | 4 35 22 A | S |
| | | ab Orionis α | 36 51 25 | 37 07 35 | 0 16 13 | 4 35 19 | W |
| 23 | 8 41 00 | ☽ l. rem. a Regulo | 11 42 30 | 11 26 30 | ♌ 14 42 43 | 3 39 41 A | S |
| | | rem. a Leonis ε | 13 42 00 | 13 26 00 | 14 42 51 | 3 39 33 | W |
| 24 | 9 29 36 | ☽ l. rem. a Regulo | 5 07 15 | 4 51 20 | ♌ 29 15 17 | 2 30 28 A | S |
| | | prox. a Leonis δ | 18 09 35 | 18 25 30 | 29 15 17 | 2 30 25 | W |
| Feb. 23 | 9 29 54 | ☽ l. rem. a Leonis δ | 30 25 40 | 30 10 15 | ♎ 4 01 58 | 0 38 41 B | S |
| | | prox. ab Arcturo | 33 31 25 | 33 46 50 | 4 01 52 | 0 38 41 | W |
| Mar. 23 | 9 33 10 | ☽ l. rem. a Spica Virginis | 8 01 40 | 7 46 25 | ♎ 12 22 49 | 1 18 28 B | S |
| | | prox. a Coronæ α | 48 19 35 | 48 34 50 | 12 22 54 | 1 18 26 | W |
| 24 | 9 00 46 | ☽ l. rem. a Virginis ε | 23 42 00 | 23 26 50 | ♎ 24 43 47 | 2 21 44 B | S |
| | | a Spica Virginis | 7 09 30 | 6 54 20 | 24 43 39 | 2 21 42 | W |
| Apr. 21 | 9 49 06 | ☽ l. prox. a Serpentis α | 26 05 05 | 26 20 05 | ♏ 3 41 39 | 2 50 49 B | S |
| | | a Vindemiatrice | 30 31 35 | 30 46 40 | 3 41 47 | 2 50 52 | W |
| 27 | 15 02 48 | ☽ l. rem. ab Aquilæ ζ | 32 55 00 | 32 40 10 | ♑ 17 39 34 | 3 38 05 B | S |
| | | prox. ab Aquarii β | 31 15 00 | 31 30 00 | 17 39 40 | 3 37 58 | W |
| Maii 13 | 9 38 47 | ☽ l. rem a Virginis α | 53 19 00 | 53 03 15 | ♌ 26 18 14 | 2 39 26 A | S |
| | | prox. a Leonis γ | 11 14 40 | 11 30 25 | 26 18 14 | 2 39 29 | W |
| 16 | 10 59 48 | ☽ l. rem. ab Arcturo | 33 16 00 | 33 00 45 | ♎ 5 42 04 | 0 45 11 B | S |
| | | prox. a Leonis γ | 40 55 40 | 41 10 55 | 5 42 15 | 0 45 10 | W |
| 17 | 9 35 20 | ☽ l. prox. a Vindemiatrice | 18 45 40 | 19 00 55 | | | |
| | | rem. a Yed Ophiuchi | 42 18 30 | 42 03 25 | ♎ 17 24 00 | 1 45 58 B | W |

| MDCLXXXI. Menſ. Die. Styl. Vet. | Temp. Ap. h ′ ″ | Diſtantiæ obſervatæ a FIXIS. | Limbi ☽ ° ′ ″ | Centri ° ′ ″ | Long. viſa Centri ☽ s ° ′ ″ | Lat. viſa Centri ☽ ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| May 25 | 14 07 06 | ☽ lim. rem. a Sagittarii π | 14 28 15 | 14 13 20 | ♑ 25 58 27 | 3 02 35 B | S |
| | | ab Aquilæ α | 26 33 15 | 26 18 20 | 25 58 31 | 3 02 30 | W |
| 26 | 14 18 17 | ☽ lim. rem. ab Aquilæ α | 29 10 50 | 28 55 55 | ♒ 8 06 18 | 2 17 08 B | S |
| | | a Sagittarii π | 26 31 35 | 26 16 40 | 8 06 23 | 2 17 10 | W |
| Jun. 11 | 9 40 40 | ☽ lim. prox. a Leonis γ | 25 19 10 | 25 34 45 | ♍ 19 03 38 | 0 29 11 A | S |
| | | rem. ab Arcturo | 43 07 45 | 42 52 10 | 19 03 31 | 0 29 15 | W |
| 18 | 10 44 10 | ☽ lim. pr. a Yed Ophiuchi | 21 38 05 | 21 52 55 | ♐ 15 44 56 | 4 12 06 B | S |
| | | rem. ab Aquila | 46 51 40 | 46 36 50 | 15 44 51 | 4 12 07 | W |
| Julii 13 | 9 47 34 | ☽ lim. rem. a Serpentis α | 21 54 55 | 21 40 00 | ♏ 18 04 55 | 3 52 15 B | S |
| | | rem. a Sagittarii π | 53 58 50 | 53 43 55 | 18 04 49 | 3 52 00 | W |
| 20 | 11 34 23 | ☽ l. pr. a Markab Pegaſi | 39 38 55 | 39 54 00 | | | |
| | | ab Aquilæ α | 30 52 55 | 31 08 00 | ♒ 12 26 31 | 1 44 30 B | W |
| Aug. 18 | 12 32 30 | ☽ lim. rem. ab Aquarii ζ | 9 11 35 | 8 56 10 | ♓ 4 22 34 | 0 04 32 A | S |
| | | prox. ab Aquarii λ | 2 30 45 | 2 46 10 | 4 22 36 | 0 04 40 | W |
| 19 | 14 05 36 | ☽ lim. pr. a ☊° lim Piſcium | 37 21 55 | 37 37 25 | ♓ 17 56 22 | 1 15 42 A | S |
| | | rem. a Markab | 20 57 30 | 20 42 00 | 17 56 18 | 1 15 41 | W |
| Sept. 7 | 7 47 14 | ☽ lim. rem. a Sagittarii π | 39 03 00 | 38 48 10 | ♐ 3 04 55 | 4 25 02 B | S |
| | | prox. a Serpentis α | 25 33 40 | 25 48 30 | 3 04 50 | 4 25 10 | W |
| 8 | 7 37 16 | ☽ lim. rem. ab Ophiuchi α | 31 48 30 | 31 33 30 | ♐ 15 03 34 | 4 26 40 B | S |
| | | a Sagittarii π | 27 08 40 | 26 53 40 | 15 04 39 | 4 26 30 | W |
| Oct. 11 | 7 25 39 | ☽ lim. prox. a Capricorni α | 23 41 00 | 23 56 10 | | | |
| | | rem. a Pegaſi ε | 22 05 20 | 21 50 10 | ♒ 22 37 02 | 0 47 50 B | W |
| 15 | 9 19 30 | ☽ lim. r. ab Andromedæ α | 30 18 20 | 30 02 20 | ♈ 16 06 55 | 3 44 19 A | S |
| | | a lucid. Plejadum | 40 25 50 | 40 09 50 | 16 06 55 | 3 44 08 | W |
| 16 | 13 25 34 | ☽ lim. rem. ab Arietis β | 13 36 50 | 13 20 35 | ♉ 2 12 42 | 4 35 56 A | S |
| | | a Palilicio | 33 16 30 | 33 00 15 | 2 12 40 | 4 36 00 | W |
| Nov. 21 | 17 37 05 | ☽ lim. r. a Geminorum λ | 56 50 55 | 56 35 10 | ♍ 10 46 33 | 0 17 57 A | S |
| | | a Leonis δ | 15 23 20 | 15 07 35 | 10 46 27 | 0 18 05 | W |
| Dec. 12 | 9 01 42 | ☽ lim. rem. a Palilicio | 4 49 00 | 4 32 45 | ♊ 0 46 40 | 5 39 53 A | S |
| | | prox. a Perſei ζ | 16 48 55 | 17 05 10 | 0 46 27 | 5 39 40 | W |
| MDCLXXXII. | | | | | | | |
| Feb. 3 | 6 33 37 | ☽ lim. rem. a Palilicio | 29 50 10 | 29 34 30 | ♉ 5 37 55 | 5 16 24 A | S |
| | | prox. ab Arietis α | 15 09 20 | 15 25 00 | 5 37 55 | 5 16 26 | W |
| 4 | 6 24 17 | ☽ l. pr. ab Androm. Alam. | 34 25 25 | 34 41 15 | ♉ 19 08 09 | 5 43 54 A | S |
| | | rem. a Palilicio | 16 23 30 | 16 07 40 | 19 08 09 | 5 43 53 | W |
| 11 | 9 03 56 | ☽ lim. rem. a Regulo | 8 10 20 | 7 53 45 | ♍ 3 17 55 | 0 03 06 B | W |
| | | a Leonis δ | 14 58 05 | 14 41 30 | | | |
| Martii 6 | 7 49 56 | ☽ lim. prox. a Tauri β | 14 27 40 | 14 43 45 | | | |
| | | rem. a Polluce | 23 56 20 | 23 40 15 | ♊ 28 20 19 | 5 15 57 A | W |
| 8 | 8 35 56 | ☽ lim. prox. a Polluce | 13 11 20 | 13 27 40 | ♋ 27 35 26 | 3 34 24 A | S |
| | | rem. a Leonis γ | 30 23 45 | 30 07 25 | 27 35 28 | 3 34 25 | W |
| Apr. 7 | 9 02 09 | ☽ lim. prox. a Leonis γ | 14 26 00 | 14 42 10 | ♍ 6 52 01 | 0 08 34 A | S |
| | | rem. a Vindemiatrice | 32 55 30 | 32 39 20 | 6 51 51 | 0 08 37 | W |
| 16 | 14 36 57 | ☽ lim. rem. ab Ophiuchi β | 31 33 25 | 31 18 35 | ♑ 7 56 48 | 1 14 14 B | S |
| | | a Scorpii β | 39 24 40 | 39 09 50 | 7 56 48 | 1 14 18 | W |
| Maii 8 | 10 01 46 | ☽ lim. prox. a Vindemiatr. | 25 33 25 | 25 48 55 | ♎ 28 25 45 | 3 34 50 B | S |
| | | rem. a Serpentis α | 28 55 10 | 28 39 40 | 28 25 50 | 3 34 51 | W |
| 14 | 14 04 12 | ☽ l. rem. a capite Ophiuchi | 42 14 15 | 41 59 25 | ♑ 15 57 14 | 2 47 33 B | S |
| | | ab ore Pegaſi | 44 54 05 | 44 39 15 | 15 57 15 | 2 47 33 | W |
| 18 | 14 24 40 | ☽ lim. rem. ab Ore Pegaſi | 24 24 10 | 24 09 20 | ♓ 3 15 34 | 1 21 26 A | S |
| | | a Sagittarii π | 51 44 35 | 51 29 45 | 3 15 43 | 1 21 33 | W |
| Julii 6 | 10 02 33 | ☽ lim. prox. a Scorpii β | 26 07 25 | 26 22 20 | ♐ 25 02 59 | 3 37 10 B | S |
| | | a capite Ophiuchi | 32 40 20 | 32 55 15 | 25 02 58 | 3 37 06 | W |

| MDCLXXXII. Mens. Die. Styl. Vet. | | Temp. Ap. h ′ ″ | Distantiæ observatæ a FIXIS. | Limbi ☽ ° ′ ″ | Centri ° ′ ″ | Long. visa Centri ☽ s ° ′ ″ | Lat. visa Centri ☽ ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|---|
| Julii | 8 | 9 53 02 | ☽ lim. prox. ab Aquilæ ζ<br>a Sagittarii π | 33 59 25<br>6 56 50 | 34 14 15<br>7 11 40 | ♑ 19 00 23<br>19 00 29 | 2 09 29<br>2 09 31 | B | S<br>W |
| | 9 | 12 46 22 | ☽ lim. prox. a Capricorni δ<br>ab Aquilæ α | 17 19 25<br>28 16 30 | 17 34 15<br>28 31 20 | ♒ 1 55 54<br>1 55 50 | 1 08 35<br>1 08 36 | B | S<br>W |
| | 13 | 14 49 42 | ☽ lim. r. a Markab Pegasi<br>prox. ab Arietis α | 22 49 20<br>44 23 40 | 22 34 25<br>44 38 35 | ♓ 20 21 34<br>20 21 33 | 3 07 36<br>3 07 46 | A | S<br>W |
| | 14 | 15 00 59 | ☽ l. pr. ab Algenib. Pegasi<br>a lucida Plejadum | 16 31 55<br>53 14 35 | 16 47 00<br>53 29 40 | ♈ 2 38 23<br>2 38 24 | 4 04 04<br>4 03 58 | A | S<br>W |
| Aug. | 2 | 9 13 17 | ☽ lim. prox. a Sagittarii π<br>ab Ophiuchi α | 20 41 05<br>31 58 00 | 20 56 00<br>32 12 55 | ♐ 21 00 48<br>21 00 53 | 3 47 38<br>3 47 40 | B | S<br>W |
| | 4 | 8 49 39 | ☽ lim. prox. ab Aquilæ λ<br>rem. ab Aquarii β | 15 07 10<br>34 13 15 | 15 22 00<br>33 58 25 | ♑ 15 22 53 | 2 28 41 | B | W |
| | 7 | 9 53 25 | ☽ lim. prox. a Sagittarii π<br>ab Aquarii β | 39 19 40<br>9 19 25 | 39 34 30<br>9 34 15 | ♒ 21 21 54<br>21 21 53 | 0 37 24<br>0 37 25 | A | S<br>W |
| | 8 | 10 07 53 | ☽ lim. rem. ab ore Pegasi<br>a Capricorni β | 24 46 45<br>34 33 45 | 24 31 50<br>34 18 50 | ♓ 3 22 52<br>3 22 51 | 1 43 04<br>1 43 00 | A | S<br>W |
| | 9 | 10 54 17 | ☽ lim. rem. a Capricorni ρ<br>a Markab Pegasi | 46 52 10<br>22 43 00 | 46 37 15<br>22 28 05 | ♓ 15 41 30<br>15 41 32 | 2 48 50<br>2 48 49 | A | S<br>W |
| Sept. | 4 | 9 00 10 | ☽ lim. prox. ab Aquarii α<br>a Capricorni β | 11 49 10<br>30 09 05 | 12 04 05<br>30 24 00 | ♒ 29 27 28<br>29 27 25 | 1 22 47<br>1 22 42 | A | S<br>W |
| | 8 | 13 57 25 | ☽ l. rem. ab Andromedæ α<br>a Palilicio | 32 42 30<br>44 11 45 | 32 27 15<br>43 56 30 | ♈ 21 13 20<br>21 13 21 | 4 50 48<br>4 50 50 | A | S<br>W |
| | 9 | 10 37 05 | ☽ lim. rem. a Piscium η<br>prox. a Tauri η | 14 58 45<br>25 00 40 | 14 43 25<br>25 16 00 | ♉ 2 11 22 | 5 38 50 | A | W |
| | 28 | 7 14 58 | ☽ lim. prox. ab Aquilæ δ<br>rem. a Capricorni δ | 22 38 00<br>30 27 50 | 22 53 00<br>30 12 50 | ♑ 19 14 07<br>19 14 01 | 1 57 54<br>1 58 04 | B | S<br>W |
| Oct. | 2 | 10 22 34 | ☽ lim. rem. a Pegasi ζ<br>rem. a ☊° lini Piscium | 20 23 50<br>47 28 10 | 20 08 55<br>47 13 15 | ♓ 7 58 21<br>7 58 21 | 2 06 25<br>2 06 25 | A | S<br>W |
| | 26 | 7 10 17 | ☽ lim. rem. ab Aquilæ α<br>a Capricorni δ | 28 23 40<br>22 50 00 | 28 08 50<br>22 35 10 | ♑ 26 50 12<br>26 50 15 | 1 10 33<br>1 10 38 | B | S<br>W |
| | 28 | 7 13 12 | ☽ lim. prox. ab Aquarii β<br>rem. ab Aquarii φ | 9 24 50<br>22 22 00 | 9 39 50<br>22 07 00 | ♒ 20 35 48<br>20 35 38 | 0 52 56<br>0 52 52 | A | S<br>W |
| Nov. | 7 | 16 51 52 | ☽ lim. prox. a Castore<br>rem. a Tauri β | 17 04 50<br>19 58 45 | 17 21 00<br>19 42 35 | ♋ 5 32 01<br>5 31 59 | 3 56 10<br>3 56 10 | A | S<br>W |
| | 9 | 17 55 09 | ☽ lim. prox. a corde Hydræ<br>rem. a calce Castoris | 26 51 30<br>34 10 40 | 27 07 40<br>33 54 30 | ♌ 4 46 35<br>4 46 33 | 1 44 47<br>1 45 00 | A | S<br>W |
| | 12 | 18 21 50 | ☽ l. rem. a Leonis δ<br>prox. a Virginis ε | 16 41 55<br>22 20 15 | 16 25 50<br>22 36 20 | ♍ 17 45 06 | 1 54 23 | B | W |
| | 26 | 6 06 44 | ☽ lim. rem. a Pegasi ζ<br>a ☊° lini Piscium | 20 48 20<br>45 38 05 | 20 33 35<br>45 23 20 | ♓ 9 43 08 | 2 44 59 | A | W |
| | 27 | 5 21 14 | ☽ l. pr. a Markab Pegasi<br>rem. ab Arietis α | 23 00 30<br>44 03 25 | 23 15 30<br>43 48 30 | ♓ 21 26 32<br>21 26 31 | 3 43 45<br>3 43 54 | A | S<br>W |
| Dec. | 4 | 9 15 09 | ☽ lim. rem. a Tauri β<br>a Castore | 13 14 45<br>24 20 00 | 12 58 25<br>24 03 40 | ♊ 26 35 17<br>26 35 17 | 4 29 25<br>4 29 24 | A | S<br>W |
| | 5 | 10 56 41 | ☽ lim. prox. a Procyone<br>rem. a Palilicio | 15 15 35<br>37 00 35 | 15 32 00<br>36 44 10 | ♋ 12 08 37<br>12 08 41 | 3 23 07<br>3 23 01 | A | S<br>W |
| | 26 | 5 47 24 | ☽ l. prox. ab Andromedæ α<br>rem. a Pallilicio | 30 33 20<br>53 37 40 | 30 48 30<br>53 22 30 | ♈ 11 43 59<br>11 43 49 | 5 04 21<br>5 04 12 | A | S<br>W |
| | 29 | 6 07 50 | ☽ l. rem. ab Algol Medusæ<br>a Palilicio | 28 34 10<br>15 05 00 | 28 18 30<br>14 49 20 | ♉ 20 27 47<br>20 27 43 | 5 52 57<br>5 53 00 | A | S<br>W |
| MDCLXXXIII. | | | | | | | | | |
| Jan. | 24 | 6 22 13 | ☽ lim. rem. a Palilicio<br>ab Arietis α | 32 33 50<br>15 58 10 | 32 18 30<br>15 42 50 | ♉ 2 53 09<br>2 52 59 | 5 45 25<br>5 45 33 | A | S<br>W |

| MDCLXXXIII. Menſ. Styl. Vet. | Die. | Temp. Ap. h ′ ″ | Distantiæ observatæ a FIXIS. | Limbi ☽ ° ′ ″ | Centri ° ′ ″ | Long. visa Centri ☽ s ° ′ ″ | Lat. visa Centri ☽ ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|---|
| Jan. | 26 | 5 46 18 | ☽ lim. prox. a lucid. Plejad.<br>rem. a Palilicio | 9 56 15<br>7 01 25 | 10 11 55<br>6 45 45 | ♉ 28 33 53<br>28 33 42 | 5 44 28<br>5 44 30 | A | S<br>W |
| Feb. | 25 | 8 23 51 | ☽ lim. rem. a Castore<br>prox. a Tauri β | 17 10 40<br>19 46 00 | 16 54 30<br>20 02 10 | ♋ 6 00 44<br>6 00 32 | 3 43 57<br>3 43 57 | A | S<br>W |
| Mart. | 3 | 9 42 56 | ☽ lim. prox. a Leonis β<br>ab Arcturo | 21 18 32<br>29 50 15 | 21 35 10<br>30 06 50 | | | | |
| | 23 | 8 43 14 | ☽ lim. rem. ab Orionis α<br>a Geminorum μ | 12 57 20<br>12 58 55 | 12 41 40<br>12 43 15 | | | | |
| | 26 | 7 54 02 | ☽ lim. rem. a Leonis γ<br>prox. a Polluce | 27 48 45<br>13 19 00 | 27 32 30<br>13 35 15 | ♋ 29 35 43<br>29 35 34 | 1 40 25<br>1 40 28 | A | S<br>W |
| | 27 | 9 14 04 | ☽ lim. rem. a Regulo<br>a Leonis ε | 11 08 30<br>10 30 20 | 10 51 50<br>10 13 40 | ♌ 14 35 50 | 0 24 21 | A | W |
| | 28 | 10 46 05 | ☽ lim. prox. a Regulo<br>a Leonis γ | 4 20 00<br>9 01 30 | 4 36 30<br>9 18 00 | ♍ 0 02 06 | 0 33 20 | B | W |
| | 29 | 13 36 31 | ☽ lim. prox. a Leonis β<br>a Regulo | 10 02 40<br>20 43 20 | 10 19 15<br>20 59 55 | ♍ 16 22 30<br>16 22 29 | 1 59 39<br>1 59 41 | B | S<br>W |
| | 30 | 13 03 55 | ☽ lim. rem. a Spica Virginis<br>ab Arcturo | 19 14 25<br>33 21 20 | 18 57 50<br>33 04 45 | ♎ 1 07 41 | 2 54 40 | B | W |
| Apr. | 3 | 15 41 42 | ☽ lim. rem. a Yed Ophiuchi<br>rem. a Sagittarii π | 14 00 55<br>40 44 20 | 13 45 10<br>40 28 35 | ♐ 1 24 04<br>1 24 04 | 3 58 33<br>3 58 36 | B | S<br>W |
| | 21 | 9 05 09 | ☽ lim. prox. a Castoris θ<br>rem. a Regulo | 14 53 30<br>43 03 35 | 15 09 25<br>42 47 40 | ♋ 12 45 26 | 2 55 10<br>2 55 12 | A | S<br>W |
| | 27 | 9 30 25 | ☽ lim. rem. ab Arcturo<br>prox. a Leonis γ | 29 35 25<br>43 13 10 | 29 19 05<br>43 29 30 | ♎ 8 37 15<br>8 37 09 | 3 35 43<br>3 35 39 | B | S<br>W |
| Maii | 22 | 9 36 10 | ☽ lim. rem. a Leonis δ<br>a Spica Virginis | 12 56 50<br>43 53 10 | 12 40 45<br>43 37 05 | ♍ 5 57 33<br>5 57 46 | 1 40 03<br>1 40 10 | B | S<br>W |
| Jun. | 22 | 9 58 58 | ☽ lim. prox. a Bootis η<br>r. a lance borea Libræ | 27 20 50<br>16 05 25 | 27 36 45<br>15 49 30 | ♎ 29 36 47<br>29 36 47 | 4 19 53<br>4 19 50 | B | S<br>W |
| | 25 | 9 54 37 | ☽ l. prox. a Yed Ophiuchi<br>rem. ab Aquilæ α | 18 08 20<br>51 36 50 | 18 24 00<br>51 21 10 | ♐ 10 21 37<br>10 21 41 | 3 33 07<br>3 33 06 | B | S<br>W |
| | 26 | 10 46 13 | ☽ lim. prox. a Scorpii β<br>a capite Ophiuchi | 24 58 00<br>33 29 00 | 25 13 30<br>33 44 20 | ♐ 23 58 47<br>23 58 57 | 2 36 20<br>2 36 10 | B | S<br>W |
| Julii | 23 | 9 19 58 | ☽ l. prox. a capite Herculis<br>rem. a Sagittarii π | 34 59 00<br>22 10 50 | 35 14 25<br>21 55 25 | ♐ 19 57 41<br>19 57 41 | 2 53 57<br>2 53 56 | B | S<br>W |
| | 24 | 8 58 17 | ☽ lim. rem. ab Aquilæ α<br>prox. a Yed Ophiuchi | 36 16 05<br>37 09 20 | 36 00 50<br>37 24 35 | ♑ 2 38 14<br>2 38 20 | 1 59 18<br>1 59 20 | B | S<br>W |
| | 31 | 15 21 24 | ☽ l. rem. a Markab Pegasi<br>prox. ab Arietis α | 26 58 05<br>35 55 40 | 26 43 15<br>36 10 30 | ♈ 0 09 23<br>0 09 28 | 4 58 54<br>4 58 57 | A | S<br>W |
| Aug. | 2 | 14 33 27 | ☽ l. rem. a Mirach Androm.<br>prox. a Palilicio | 32 06 20<br>40 59 15 | 31 51 30<br>41 14 05 | ♈ 23 54 49<br>23 54 54 | 5 51 24<br>5 51 30 | A | S<br>W |
| | 23 | 9 17 22 | ☽ lim. prox. ab Aquilæ α<br>a Sagittarii π | 31 20 30<br>24 41 10 | 31 35 25<br>24 56 05 | ♒ 6 40 22<br>6 40 27 | 0 58 27<br>0 58 32 | A | S<br>W |
| | 27 | 14 08 33 | ☽ l. rem. a Markab Pegasi<br>prox. ab Arietis α | 25 22 00<br>39 18 30 | 25 07 00<br>39 33 30 | ♓ 26 20 15<br>26 20 05 | 4 40 06<br>4 40 10 | A | S<br>W |
| Sept. | 18 | 8 26 03 | ☽ lim. prox. ab Aquilæ ζ<br>rem. a Capricorni δ | 36 02 35<br>28 43 20 | 36 17 45<br>28 28 10 | ♑ 20 47 44<br>20 47 37 | 0 16 59<br>0 16 52 | B | S<br>W |
| | 22 | 8 42 26 | ☽ lim prox. a Pegasi ε<br>rem. ab η Piscium | 28 01 55<br>44 26 55 | 28 16 45<br>44 12 05 | ♓ 9 06 03<br>9 06 05 | 3 46 12<br>3 46 10 | A | S<br>W |
| Oct. | 14 | 6 25 46 | ☽ lim. prox. ab Ophiuchi α<br>rem. a Capricorni δ | 36 45 50<br>46 46 10 | 37 01 20<br>46 30 40 | ♑ 2 47 12<br>2 47 20 | 1 29 48<br>1 29 45 | B | S<br>W |
| | 17 | 7 25 55 | ☽ lim. prox. ab Aquilæ α<br>rem. a Markab | 33 29 46<br>43 07 15 | 33 44 45<br>42 52 15 | ♒ 11 04 43<br>11 04 49 | 1 44 41<br>1 44 37 | A | S<br>W |
| | 24 | 9 58 00 | ☽ lim. rem. ab Arietis α<br>a Palilicio | 16 09 55<br>29 06 50 | 15 54 55<br>28 51 50 | ♉ 6 21 38<br>6 21 38 | 5 39 16<br>5 39 20 | A | S<br>W |

| MDCLXXXIII. Mens. Die. Styl. Vet. | Temp. Ap. h ' " | Distantiæ observatæ a FIXIS. | Limbi ☽ ° ' " | Centri ° ' " | Long. visa Centri ☽ s ° ' " | Lat. visa Centri ☽ ° ' " | |
|---|---|---|---|---|---|---|---|
| Oct. 27 | 9 09 16 | ☽ lim. prox. a Tauri β<br>rem. a Palilicio | 10 20 10<br>8 44 20 | 10 35 30<br>8 29 00 | ♊ 13 47 36<br>13 47 37 | 4 17 11 A<br>4 17 13 | S<br>W |
| Nov. 1 | 17 27 43 | ☽ lim. rem. a Leonis ε<br>a Geminorum γ | 11 47 05<br>50 48 45 | 11 31 00<br>50 32 40 | ♌ 24 36 55<br>24 36 57 | 1 40 48 B<br>1 40 52 | S<br>W |
| 15 | 6 24 33 | ☽ lim. prox. ab Aquarii β<br>rem. ab. Algen. Peg. | 16 42 00<br>37 42 00 | 16 56 50<br>37 27 10 | ♓ 0 44 53<br>0 44 41 | 3 35 13 A<br>3 35 10 | S<br>W |
| 24 | 9 08 54 | ☽ lim. rem. a Tauri β<br>a Palilicio | 10 23 15<br>18 02 55 | 10 07 40<br>17 47 20 | ♊ 23 05 43<br>23 05 49 | 3 28 50 A<br>3 28 47 | S<br>W |
| Dec. 18 | 6 39 06 | ☽ lim. prox. ab Arietis α<br>rem. a Tauri η | 16 26 25<br>19 38 00 | 16 41 25<br>19 23 00 | ♉ 8 49 57<br>8 49 59 | 5 46 43 A<br>5 46 40 | S<br>W |
| 21 | 7 49 23 | ☽ lim. rem. ab Orionis α<br>prox. a Palilicio | 14 07 20<br>12 05 35 | 13 51 45<br>12 21 10 | ♊ 17 39 09<br>17 39 09 | 3 51 54 A<br>3 52 00 | S<br>W |
| MDCLXXXIV. | | | | | | | |
| Jan. 22 | 8 55 53 | ☽ lim. prox. a Leonis γ<br>a Regulo | 7 18 20<br>3 13 00 | 7 34 40<br>3 29 20 | ♌ 22 13 32<br>22 13 25 | 1 48 08 B<br>1 48 00 | S<br>W |
| Feb. 12 | 6 52 46 | ☽ l. prox. ab Algol Medus.<br>rem. a Palilicio | 27 15 40<br>11 04 40 | 27 30 35<br>10 49 45 | ♉ 24 30 22<br>24 30 21 | 4 58 45 A<br>4 58 54 | S<br>W |
| Mar. 12 | 8 28 08 | ☽ lim. rem. ab Orionis γ<br>prox. a Tauri ε | 13 35 50<br>11 43 50 | 13 20 45<br>11 58 55 | ♊ 16 00 05<br>16 00 08 | 3 31 17 A | W |
| 13 | 8 09 08 | ☽ lim. prox. a Capella<br>rem. a Polluce | 27 22 10<br>22 37 55 | 27 37 35<br>22 22 30 | ♊ 28 26 51<br>28 26 41 | 2 35 40 A<br>2 35 38 | S<br>W |
| Apr. 10 | 9 05 25 | ☽ lim. prox. a Capella<br>rem. a Polluce | 31 24 45<br>13 51 50 | 31 40 05<br>13 36 30 | ♋ 8 02 42 | 1 37 50 A | W |
| 12 | 8 14 34 | ☽ lim. prox. a Procyone<br>rem. a Regulo | 20 21 20<br>21 52 40 | 20 37 00<br>21 37 00 | ♌ 2 49 28 | 0 37 28 B | W |
| 14 | 8 36 34 | ☽ lim. prox. a Leonis γ<br>rem. a Leonis β | 8 41 10<br>18 16 30 | 8 57 20<br>18 00 20 | ♍ 1 49 10<br>1 49 00 | 2 44 42 B<br>2 44 47 | S<br>W |
| 16 | 8 30 58 | ☽ l. rem. a Vindemiatrice<br>prox. a Regulo | 13 03 30<br>35 44 50 | 12 46 55<br>36 01 25 | ♎ 1 18 52<br>1 18 49 | 4 07 48 B<br>4 07 40 | S<br>W |
| 17 | 8 31 00 | ☽ lim. prox. ab Arcturo<br>a Regulo | 26 27 00<br>50 55 55 | 26 43 45<br>51 12 40 | ♎ 16 33 2<br>16 33 36 | 4 24 00 B<br>4 23 51 | S<br>W |
| Maii 16 | 10 01 32 | ☽ lim. prox. ab Arcturo<br>a Spica Virginis | 33 27 20<br>22 17 40 | 33 43 50<br>22 34 10 | ♏ 11 13 47<br>11 13 52 | 3 54 42 B<br>3 54 35 | S<br>W |
| 17 | 10 13 35 | ☽ lim. prox. ab Ophiachi δ<br>a Spica Virginis | 13 17 20<br>36 57 50 | 13 33 45<br>37 14 15 | ♏ 26 14 22<br>26 14 36 | 3 49 20 B<br>3 49 06 | S<br>W |
| Jun. 7 | 9 49 45 | ☽ lim. rem. a Regulo<br>a Spica Virginis | 2 12 40<br>54 48 40 | 1 56 50<br>54 32 50 | ♌ 25 03 40<br>25 03 36 | 2 21 13 B<br>2 21 16 | S<br>W |
| 9 | 9 35 05 | ☽ lim. rem. ab Arcturo<br>a Spica Virginis | 37 27 05<br>27 39 55 | 37 11 05<br>27 23 55 | ♍ 22 41 15 | 3 55 46 B | W |
| 10 | 9 37 33 | ☽ lim. rem. ab Arcturo<br>a Spica Virginis | 29 33 10<br>14 17 55 | 29 17 00<br>14 01 45 | ♎ 6 55 12 | 4 18 44 B | W |
| 11 | 10 24 13 | ☽ lim. prox. ab Arcturo<br>rem. a Scorpii β | 26 23 35<br>37 27 25 | 26 39 50<br>37 11 10 | ♎ 21 42 02<br>21 42 02 | 4 20 46 B<br>4 20 43 | S<br>W |
| 12 | 10 11 27 | ☽ lim. rem. a Serpentis α<br>a Scorpii β | 24 25 00<br>23 06 10 | 24 08 40<br>22 49 50 | ♏ 6 08 51<br>6 08 52 | 4 03 28 B<br>4 03 30 | S<br>W |
| 14 | 9 45 23 | ☽ lim. prox. ab Ophiuchi δ<br>a Spica Virginis | 16 00 25<br>45 35 25 | 16 16 40<br>45 51 40 | ♐ 5 05 00<br>5 05 03 | 2 37 17 B<br>2 37 10 | S<br>W |
| Julii 20 | 15 14 27 | ☽ lim. prox. a Pegasi γ<br>a Palilicio | 18 17 20<br>62 29 15 | 18 32 30<br>62 44 15 | ♈ 2 17 51 | 5 47 24 A | J.F. |
| 21 | 15 20 07 | ☽ lim. prox. ab Androm. β<br>a Palilicio | 33 31 15<br>50 23 00 | 33 46 05<br>50 37 50 | ♉ 14 28 29<br>14 28 24 | 5 55 57 A<br>5 55 58 | S<br>W |
| Aug. 19 | 16 29 07 | ☽ lim. rem. a luc. Arietis α<br>prox. a Palilicio | 15 37 45<br>30 10 10 | 15 22 55<br>30 25 00 | ♉ 4 49 09<br>4 49 10 | 5 20 55 A<br>5 20 55 | S<br>W |

| MDCLXXXIV. Menſ. Die. Styl. Vet. | Temp. Ap. h ′ ″ | Diſtantiæ Obſervatæ à FIXIS. | Limbi ☽ ° ′ ″ | Centri ° ′ ″ | Long. viſa Centri ☽ s ° ′ ″ | Lat. viſa Centri ☽ ° ′ ″ | | |
|---|---|---|---|---|---|---|---|---|
| Sept. 9 | 7 51 20 | ☽ l. r. ab hum. Aquarii pr. β | 13 21 15 | 13 05 55 | ♒ 13 47 47 | 3 22 56 | A | S |
| | | prox. a Sagittarii π | 32 01 25 | 32 16 45 | 13 47 46 | 3 22 59 | | W |
| 21 | 16 33 53 | ☽ lim. prox. a Procyone | 16 59 45 | 17 15 10 | ♋ 14 00 04 | 0 20 53 | A | S |
| | | rem. a Palilicio | 39 09 30 | 38 54 05 | 14 00 13 | 0 20 54 | | W |
| Oct. 14 | 17 51 36 | ☽ lim. r. ab And. Alamech | 34 22 50 | 34 08 00 | ♉ 22 22 34 | 4 09 35 | A | S |
| | | prox. a Palilicio. | 12 46 45 | 13 01 35 | 22 22 25 | 4 09 35 | | W |
| 19 | 16 46 10 | ☽ l. rem. a calce Caſtoris | 22 17 55 | 22 02 30 | ♋ 22 52 57 | 0 43 43 | B | S |
| | | a Caſtore | 11 55 15 | 11 39 50 | 22 53 12 | 0 43 35 | | W |
| MDCLXXXV. | | | | | | | | |
| Mart. 31 | 8 35 34 | ☽ lim. rem. a Procyone | 21 29 20 | 21 14 15 | ♋ 7 20 25 | 0 04 42 | B | S |
| | | a Regulo | 48 22 05 | 48 07 00 | 7 20 20 | 0 04 44 | | W |
| Oct. 2 | 10 29 16 | ☽ lim. r. a capite Androm. | 34 33 25 | 34 18 20 | ♈ 25 58 26 | 4 52 23 | A | W |
| | | pr. a lucid. Plejadum | 30 39 20 | 30 54 35 | 25 58 26 | | | |
| 30 | 9 30 56 | ☽ lim. rem. ab Arietis α | 14 07 20 | 13 52 15 | ♉ 3 50 25 | 3 54 25 | A | S |
| | | prox. a Palilicio | 31 13 55 | 31 29 00 | 3 50 20 | 3 54 25 | | W |
| 31 | 9 35 34 | ☽ lim. prox. a Ceti α | 11 02 10 | 11 17 05 | ♉ 16 37 48 | 3 28 57 | A | S |
| | | rem. a Palilicio | 19 03 35 | 18 48 40 | 16 37 53 | 3 28 50 | | W |
| Nov. 6 | 17 26 27 | ☽ lim. prox. ab Hydræ ζ | 16 14 35 | 16 29 30 | ♌ 1 35 43 | 3 05 45 | B | S |
| | | rem. a calce Caſtoris | 31 10 25 | 30 55 30 | | | | |
| 23 | 5 45 18 | ☽ lim. prox. a Pegaſi ε | 36 30 20 | 36 45 45 | ♓ 21 34 01 | 6 05 34 | A | S |
| | | rem. ab Arietis α | 44 47 00 | 44 31 35 | 21 34 02 | 6 05 37 | | W |
| 25 | 6 34 53 | ☽ l. pr. ab Andromedæ α | 31 42 15 | 31 57 20 | ♈ 17 31 22 | 5 24 31 | A | S |
| | | rem. a Tauri η | 39 26 45 | 39 11 30 | 17 31 21 | 5 24 24 | | W |
| Dec. 6 | 17 34 53 | ☽ lim. rem. a Leonis δ | 9 38 10 | 9 23 00 | ♍ 5 22 02 | 5 03 34 | B | S |
| | | a Polluce | 46 30 45 | 46 15 35 | 5 22 09 | 5 03 15 | | W |
| 7 | 17 59 06 | ☽ lim. rem. a Leonis η | 24 55 05 | 24 39 45 | ♍ 18 15 52 | 4 39 50 | B | W |
| | | rem a Leonis β | 7 56 10 | 7 34 50 | | | | |
| MDCLXXXVI. | | | | | | | | |
| Jan. 21 | 6 49 26 | ☽ l. rem. a Geminorum μ | 43 41 50 | 43 26 55 | ♉ 17 29 38 | 3 05 17 | A | S |
| | | rem. ab Algol Meduſæ | 26 04 35 | 25 49 40 | 17 29 39 | 3 05 11 | | W |
| 25 | 9 07 05 | ☽ lim. rem. a Procyone | 23 01 50 | 22 47 00 | ♋ 6 18 45 | 1 13 26 | B | S |
| | | prox. a Palilicio | 31 21 10 | 31 36 00 | 6 18 45 | 1 13 25 | | W |
| Feb. 16 | 6 39 35 | ☽ lim. pr. ab Andromedæ β | 29 56 30 | 30 11 50 | ♉ 0 07 08 | 3 59 26 | A | S |
| | | rem. a Palilicio | 35 26 20 | 35 11 00 | 0 07 09 | 3 59 32 | | W |
| 20 | 8 58 29 | ☽ lim. prox. a Tauri β | 5 28 05 | 5 42 55 | ♊ 20 16 42 | 0 02 33 | B | S |
| | | r. a Geminorum μ | 10 55 25 | 10 40 30 | 20 16 36 | 0 02 32 | | W |
| 21 | 6 43 12 | ☽ lim. rem. a Geminorum γ | 8 43 10 | 8 28 20 | ♋ 1 24 44 | 1 00 54 | B | S |
| | | a Polluce | 18 33 40 | 18 18 50 | 1 24 45 | 1 00 57 | | W |
| 23 | 8 53 04 | ☽ lim. prox. a Caſtore | 12 18 20 | 12 33 10 | ♋ 26 14 44 | 2 53 32 | B | W |
| | | a calce Caſtoris | 25 21 00 | 25 35 50 | | | | |
| 25 | 8 35 02 | ☽ lim. rem. a Regulo | 6 09 10 | 5 54 00 | ♌ 20 53 28 | 4 10 18 | B | S |
| | | prox. a calce Caſtoris | 49 56 10 | 50 11 20 | 20 53 27 | 4 10 14 | | W |
| 27 | 9 52 53 | ☽ lim. prox. a Leonis β | 7 28 30 | 7 44 00 | ♍ 17 00 25 | 4 33 05 | B | S |
| | | rem. a Regulo | 22 09 35 | 21 54 05 | 17 00 25 | 4 33 01 | | W |
| Mart. 2 | 15 09 28 | ☽ lim. prox. a Serpentis α | 28 19 00 | 28 34 55 | ♎ 29 51 13 | 2 38 46 | B | W |
| | | r. a Vindemiatrice | 27 45 00 | 27 29 05 | | | | |
| 18 | 7 58 00 | ☽ lim. rem. a Palilicio | 4 59 20 | 4 44 25 | ♊ 3 25 22 | 1 11 09 | A | S |
| | | a Geminorum μ | 27 44 25 | 27 29 30 | 3 25 28 | 1 11 02 | | W |
| Apr. 19 | 8 52 57 | ☽ lim. prox. a Procyone | 20 42 20 | 20 57 20 | ♋ 29 45 49 | 3 18 42 | B | S |
| | | rem. a Regulo | 26 06 00 | 25 51 00 | 29 45 45 | 3 18 43 | | W |
| May 18 | 9 57 50 | ☽ lim. rem. a Leonis γ | 6 52 50 | 6 37 50 | ♌ 20 21 23 | 4 13 46 | B | S |
| | | a Regulo | 6 36 35 | 6 21 35 | 20 21 12 | 4 13 46 | | W |

| MDCLXXXVI. Mens. Die. Styl. Vet. | Temp. Ap. h ′ ″ | Distantiæ observatæ a FIXIS. | Limbi ☽ ° ′ ″ | Centri ° ′ ″ | Long. visa Centri ☽ s ° ′ ″ | Lat. visa Centri ☽ ° ′ ″ | |
|---|---|---|---|---|---|---|---|
| May 20 | 9 19 20 | ☽ lim. rem. a Leonis β<br>a Spica Virginis | 8 23 05<br>35 29 50 | 08 07 55<br>35 14 40 | ♍ 14 48 55 | 4 31 24 B | W |
| Sept. 16 | 8 09 45 | ☽ lim. prox. ab Aquilæ α<br>rem. a Capricorni δ | 34 39 10<br>21 57 45 | 34 55 25<br>21 41 30 | ♑ 27 38 36<br>27 38 37 | 5 36 10<br>5 36 08 A | S<br>W |
| Oct. 29 | 18 19 27 | ☽ lim. rem. a Leonis γ<br>a calce Castoris | 5 15 50<br>57 48 15 | 5 01 00<br>57 33 25 | ♌ 28 15 48<br>28 15 53 | 4 47 50<br>4 47 45 B | S<br>W |
| MDCLXXXVII. | | | | | | | |
| Jan. 18 | 9 55 23 | ☽ lim. rem. a Procyone<br>prox. a Regulo | 30 27 45<br>11 56 20 | 30 12 55<br>12 11 10 | ♌ 13 57 57<br>13 57 50 | 4 27 47<br>4 27 51 B | S<br>W |
| Feb. 12 | 8 43 26 | ☽ lim. rem a Procyone<br>prox. a Tauri β | 20 22 50<br>27 43 15 | 20 08 00<br>27 58 05 | ♋ 16 11 01 | 3 28 41 B | W |
| Mar. 11 | 7 53 14 | ☽ lim. rem. a Procyone<br>a Polluce | 21 45 40<br>7 43 10 | 21 30 50<br>7 28 20 | ♋ 12 06 59<br>12 07 03 | 3 27 34<br>3 27 34 B | S<br>W |
| April. 16 | 9 31 18 | ☽ lim. prox. a Coronæ α<br>a Virginis γ | 43 24 10<br>22 47 30 | 43 39 40<br>23 03 00 | ♎ 28 51 20<br>28 51 25 | 1 26 04<br>1 26 07 B | S<br>W |
| May 10 | 9 14 31 | ☽ lim. rem. a Virginis γ<br>a Leonis β | 19 33 00<br>8 28 00 | 19 18 10<br>8 13 10 | ♍ 16 32 18<br>16 32 12 | 4 05 46<br>4 05 40 B | S<br>W |
| Jun. 9 | 10 09 46 | ☽ lim. rem. ab Arcturo<br>prox. a Virginis γ | 29 18 55<br>13 14 55 | 29 03 40<br>13 30 10 | ♎ 19 19 00<br>19 18 50 | 1 53 36<br>1 53 27 B | S<br>W |
| Sept. 9 | 9 40 46 | ☽ lim. rem. a Pegasi υ<br>a Piscium ν | 22 32 35<br>48 08 00 | 22 15 55<br>47 51 20 | ♓ 5 48 39<br>5 48 47 | 5 39 07<br>5 39 01 A | S<br>W |
| MDCLXXXVIII. | | | | | | | |
| Jan. 27 | 6 44 15 | ☽ lim. prox. ab Androm. β<br>rem. a Palilicio | 27 13 05<br>41 13 25 | 28 29 15<br>40 57 15 | ♈ 24 34 31<br>24 34 31 | 1 30 46<br>1 30 51 A | S<br>W |
| 30 | 6 03 21 | ☽ lim. rem. ab Orionis γ<br>a Tauri β | 21 53 40<br>13 03 35 | 21 38 05<br>12 48 00 | ♊ 5 49 50<br>5 49 50 | 1 59 12<br>1 59 10 B | S<br>W |
| 31 | 6 28 18 | ☽ lim. rem. ab Orionis α<br>prox. a lucida Plejadum | 19 59 00<br>23 22 10 | 19 43 30<br>23 37 40 | ♊ 19 17 36<br>19 17 34 | 2 59 48<br>2 59 46 B | S<br>W |
| Feb. 13 | 17 12 13 | ☽ lim. prox. ab Ophiuchi α<br>rem. a Spica Virginis | 41 22 00<br>43 33 20 | 41 37 10<br>43 18 10 | ♐ 2 49 44<br>2 49 52 | 3 13 07<br>3 12 50 A | S<br>W |
| 27 | 7 11 03 | ☽ lim. rem. ab Orionis α<br>a Polluce | 21 08 40<br>33 20 50 | 20 53 05<br>33 05 15 | ♊ 15 53 36 | 3 02 46 B | W |
| Apr. 5 | 12 20 14 | ☽ lim. rem. a Serpentis α<br>a Spica Virginis | 30 57 00<br>10 40 30 | 30 42 00<br>10 25 30 | ♎ 29 40 29<br>29 40 35 | 0 14 20<br>0 14 14 B | S<br>W |
| Sept. 24 | 8 31 08 | ☽ lim. prox. a Capricorni β<br>rem. ab Aquarii λ | 13 52 55<br>28 54 55 | 14 09 00<br>28 38 50 | ♒ 9 04 46<br>9 04 36 | 5 49 46<br>5 49 36 B | S<br>W |
| MDCLXXXIX. | | | | | | | |
| Feb. 18 | 6 56 37 | ☽ lim. rem. a Procyone<br>prox. a Palilicio | 24 56 40<br>33 47 50 | 24 40 50<br>34 03 40 | ♋ 7 57 38<br>7 57 31 | 4 45 57<br>4 46 03 B | S<br>W |
| 19 | 6 24 11 | ☽ lim. prox. a Castore<br>a Geminorum γ | 7 17 20<br>19 56 20 | 7 33 00<br>20 12 00 | ♋ 21 21 02<br>21 20 58 | 4 46 45<br>4 46 46 B | S<br>W |
| Martii 25 | 10 09 43 | ☽ lim. rem. ab Arcturo<br>a Regulo | 32 04 45<br>52 42 00 | 31 49 55<br>52 27 10 | ♎ 17 57 01<br>17 57 00 | 0 49 43<br>0 49 38 A | S<br>W |
| May 15 | 9 45 59 | ☽ lim. prox. a Leonis γ<br>rem. a Leonis β | 10 46 40<br>16 25 35 | 11 01 55<br>16 10 20 | ♍ 4 19 55<br>4 19 51 | 2 28 07<br>2 28 05 B | S<br>W |

*FINIS.*

*Erratis levioribus ignoscat Lector; Graviora hactenus animadversa sic corrigat.*

# ERRATA PRIMI VOLUMINIS.

| Pag. | | d. | h. | ′ | Pro. | Lege. |
|---|---|---|---|---|---|---|
| 9 | Febr. | 15 | 8 | 49 | 18° 22′ 35″ \| 440 11 | 18° 32′ 35″ \| 444 11 |
| 10 | Jan. | 30 | 8 | 48 | 50 16 55 \| 1204 8 | 50 11 55 \| 1202 8 |
| | | | 8 | 50 | 50 17 05 \| 1204 15 | 50 12 04 \| 1202 15 |
| 22 | Dec. | 21 | 18 | 46 | 54 22 15 | 54 02 15 |
| 23 | Mart. | 30 | 9 | 22 | 1091 54 | 1091 94 |
| 26 | Apr. | 4 | 10 | 28 | 3° 39′ 30″ | 31° 39′ 30″ |
| 29 | | 29 | 11 | 38 | 39 19 13 | 39 19 43 |
| 30 | Maii | 23 | 12 | 8 | 601 27 | 601 72 |
| 31 | Junii | 25 | 10 | 35½ | 827 80 | 807 08 |
| 52 | Nov. | 22 | 10 | 4 | 19° 25′ 30″ | 19° 35′ 00″ |
| 55 | | | | | *Adjutore Lusciaso* | *Adjutore lusco.* |
| 65 | Dec. | 14 | 7 | 31 | | *Extrema Alæ Pegasi* |
| 68 | Mart. | 29 | 10 | 37 | 30° 02′ 02″ | 30° 51′ 53″ |
| 69 | Octob. | 5 | 9 | 48 | 42 33 05 | 42 33 45 |
| 72 | Dec. | 19 | 7 | 22 | 48 22 35 \| 1159 61 | 48 27 39 \| 1160 61 |
| 74 | Jan. | 28 | 7 | 11 | sibi succedentes | sibi succedentibus |
| 76 | Sept. | 3 | 9 | 28 | 54° 46′ 00 | 52° 46′ 00″ |
| 77 | Apr. | 7 | 10 | 4 | 37 34 30 | 37 43 32 |
| 89 | Aug. | 21 | 10 | 42 | 15 48 20 \| 378 76 | 15 43 46 \| 376 76 |
| | Sept. | 7 | 9 | 17 | 626 82 | 627 82 |
| | | | 9 | 56 | in recta cum *c* & *d* | in recta cum *c* & δ |
| 90 | Sept. | 13 | 10 | 7 | in recta cum *c* & *d* | in recta cum *c* & δ |
| 94 | Maii | 30 | 12 | 25 | Ophiuchi Serpentis | Ophiuchi Serpentis ν |
| | | | | 57 | Ophiuchi Serpentis | Ophiuchi Serpentis ν |
| 97 | Junii | 17 | | | Fixam quam σ notavi | Fixa quam σ notavi |
| 98 | Julii | 31 | 15 | 32 | Julii 31 | Julii 31 |
| 99 | Octob. | 21 | 8 | 14 | præcedens Borea | præcedentium Borea |
| | | | 8 | 23 | *A* | Austrina ad π |
| | | | 8 | 53 | Borea ad π | *A* |
| | | | 9 | 2 | Austrina ad π | Borea ad π |
| 100 | Octob. | 21 | 9 | 24 | 34° 04′ 55″ | 35° 04′ 55″ |
| 101 | Dec. | 21 | 9 | 0 | *Ursæ Majoris in præced.* | Ursæ Majoris in quadrilatero præcedens α |
| 107 | Cat. Fix. | | Δi | ζ | ♉ 8° 22′ \| 17° 32′ 05″ | ♉ 8° 36′ \| 15° 34′ 12″ |
| | *Lin. ult.* | | ♉ | β | ♊ 18 10 05 | ♊ 18 06′ 05″ |
| 109 | Aug. | 22 | 7 | 56 | 35° 39′ 35″ | 25° 39′ 35″ |
| | | 29 | 8 | 20 | 33 19 07 | 33 10 07 |
| | | 30 | 7 | 35 | 40 27 21 | 40 17 21 |
| | Sept. | 1 | 7 | 25 | 25 53 35 | 35 53 35 |
| 112 | Aug. | 20 | 15 | 38 | 20 11 32 | 26 11 32 |
| 113 | | | | | *Coronæ lucida* ♍ | Coronæ lucidæ α ♏ |
| 115 | Jan. | 7 | | | Die ♀is | Die ♂is |
| 116 | Aug. | 31 | 16 | 6 | 964 94 | 764 94 |
| 117 | Mar. | 23 | 9 | 6 | 23° 00′ 52 | 13° 00′ 07″ |
| 124 | Apr. | 29 | 9 | 49 | *lege* 47° 33′ 05″ | 1138 69 \| 47° 33′ 05″ |
| | | | 9 | 52 | 47 33 15 | 1138 78 \| 47 33 18 |
| 125 | Febr. | 28 | | | pro Die ☉is | Die ♄i |
| 126 | Octob. | 6 | | | Die ♀is | Die ☿ii |
| 127 | Maii | 2 | 9 | 25½ | 741 84 | 741 48 |
| 128 | Jan. | 31 | 16 | 32 | 1225 03 | 1425 03 |
| | | | 16 | 35 | 1225 03 | 1425 03 |
| 130 | Aug. | 15 | 9 | 1 | 31° 58′ 15″ | 15° 58′ 15″ |
| 131 | Nov. | 1 | 7 | 29½ | ab interiore | ab anteriori |
| 132 | Sept. | 2 | 9 | 42 | 50° 39′ 00″ | 50° 40′ 00″ |
| | | | 9 | 50 | 50 38 42 | 50 39 42 |
| 133 | Febr. | 11 | 6 | 30 | 684 47 | 684 57 |
| | Aug. | 10 | 14 | 54 | 948 45 | 948 85 |
| 138 | Octob. | 2 | 9 | 50 | 433 50 | 443 50 |
| | | | 9 | 52 | 439 49 | 443 49 |
| 139 | Jan. | 3 | 8 | 6 | 28′ 57″ | 27′ 57″ |
| | Mart. | 6 | 8 | 13 | a Castore | a Procyone |
| 140 | Febr. | 16 | 8 | 25 | Die ☿ii | Die ♀is |
| 141 | Sept. | 5 | 17 | 15 | 48° 41′ 00″. | 48° 40′ 28″ |
| 142 | Dec. | 3 | 18 | 39 | ☽ —— 3 | ☽ Decemb. 3. |
| | | | 18 | 41 | 26° 18′ 15″ | 26° 18′ 51″ |
| 144 | Febr. | 3 | 18 | 26 | 43 16 10 | 43 16 50 |
| 147 | Junii | 12 | 9 | 48 | 948 | 9h 48′ |
| | Sept. | 11 | | | | 1678. |
| 148 | Octob. | 11 | 11 | 52 | *bf* | ♂*f* |
| | Nov. | 4 | 16 | 1 | ♂ Nov. vel ☿ 5 | ☽ Nov. 4. vel ♂ 5. |
| 153 | Mart. | 23 | 9 | 14 | 268 39 \| 11° 12′ 33″ | 268 49 \| 11° 12′ 48″ |
| 158 | Nov. | 20 | 5 | 30 | Differ. (Decl. ♂ Bor.) | Differ. Decl. (♂ Bor.) |
| 160 | Jan. | 16 | 19 | 51½ | a limbo Solis præcedente | a limbo Solis sequente |
| 164 | | | | | ♃ Sept. 18 vel ♀ 19 | ☿ Sept. 18 vel ♃ 19 *mane* |
| | | | | | ♀ 19 | ♃ 19 |
| | | | | | ♀ Oct. 12 | ♄ Oct. 12 |
| | | | | | ♂ Nov. 25 | ☽ Nov. 25 |
| | | | | | ☿ 26 | ♂ 26 |
| | Nov. | 26 | 0 | 27 | 14° 33′ 05″ | 14° 34′ 05″ |
| | | | | | 14 33 28 | 14 34 28 |
| 166 | Aug. | 16 | | | 4h 26′ | 4h 33′ |
| 175 | Aug. | 4 | 0 | 41 | 41″ | 5h 4′ |
| 184 | | | | | ♀ Sep. 14 vel ♀ 15 *mane* | ♂ 14 vel ☿ 15 *mane* |
| 184 | Aug. | 25 | 3 | 32 | 46° 32′ 10″ | 46° 32′ 55″ |
| 189 | Mart. | 31 | | | 7h | 7h 10′ |
| 195 | Feb. | 27 | | | ☽ Feb. 27 | ☉ Feb. 27 |
| | | 27 | 17 | 21 | 17h 21′ 20″ | 17h 15′ 20″ |
| | eodem Die | | | | errorem 10′ 40″ add. | errorem 11′ 40″ add. |
| 197 | Mart. | 9 | | | Mart. 8 | Mart. 9 |
| | | 22 | 11 | 10 55 | 10′ 55″ | 11h 10′ 55″ |
| 202 | *lin. ab ult. tertia* | | | | imo temporis secunda | uno temporis secundo |
| 203 | Junii | 19 | | | Junii 19: Lunæ Occult. | ☽ Junii 19 \| Occult, &c |
| 204 | *lin. antipenult* | | | | Dist. Centri ☽ Fixa | Dist. Centri ☽ a Fixa |
| 205 | Julii | 22 | 12 | 10 46 | a Cornu ♉ i Austrino | a Cornu ☽ Austrino |
| 206 | Aug. | 9 | | | Sagittarii *o* | [illegible] Sagittarii *o* |
| 210 | Oct. | 30 | 6 | 12 10 | 6h 12′ 50″ | 6h 12′ 10″ |
| 211 | Dec. | 19 | 18 | 21 10 | 18 42′ 59″—8′ 29 | 18 11 44—9′ 26″ |
| 212 | Jan. | 16 | 16 | 31 28 | proximus a Spica ♍is | remotus a Spica ♍is |
| | | | 17 | 7 35 | | |
| 214 | Feb. | 27 | *in fine* | | ♊ 2° 19′ 18″ \| 0° 19′ 23″ A | ♊ 2° 9′ 33″ \| 0° 8′ 53″ B |
| | | | | | *b* in ♊ 2° 42′ 21″ | ♊ 2 27 36 \| 0 18 00 B |
| 214 | Feb. | 27 | 12 | 17 30 | 1370 | 1350 |
| | Feb. | 28 | *in princ.* | | ♊ 16° 16′ \| 0° 42′ A | ♊ 16 05′ \| 1° 4′ A |
| 215 | Mart. | 30 | 10 | 53 18 | 10h 53′ 18″ \| 10h 53′ 03″ | 10h 15′ 18″ \| 10h 15′ 03″ |
| 216 | Apr. | 5 | | | limbi ☉is Inferioris | limbi ☉is Superioris |
| 217 | Maii | 30 | | | ♃ Maii 30 | ☿ Maii 30 |
| | Junii | 5 | 11 | 00 31 | limb. inf. 5ta Serpentis | limb. inf. a 5ta Serpent. |
| 224 | Sept. | 27 | *lin. 2* | | ujus | cujus |
| | Oct. | 22 | 7 | 27 2 | 7h 27′ 2″ | 7h 27′ 26″ |
| 227 | Jan. | 8 | | | 6 25 38—11′ 3″ | 6 25 28—11′ 0″ |
| | | | | | 27 48—10 57 | 27 38—11 5 |
| | | | | | 29 57—11 3 | 29 47—11 9 |
| | | | | | 32 2—11 1 | 31 56—11 8 |
| 230 | Junii | 27 | | | Lunæ transiens | Luna transiens |
| 231 | Julii | 17 | 9 | 47 23 | 15° 25′ 05″ | 11° 25′ 05″ |
| 232 | Sept. | 14 | 3 | 38 28 | Solis limbi inferioris | Solis limbi superioris |
| | | 28 | 18 | 40 58 | 18° 40′ 58″ | 18 39′ 58″ |
| 238 | Nov. | 5 | 6 | 17 2 | Lucida ♈tis 54° 20½′ | Lucida ♈tis 54° 30½′ |
| 244 | Junii | 14 | | | ♄ Jan. 14 | ♄ Junii 14 |
| 245 | Julii | 9 | 10 | 27 7 | 46° 31′ 35″ | 46 31′ 45″ |
| 248 | Aug. | 14 | | | texerat 13 iscium | texerat 13iam Piscium |
| 260 | Apr. | 25 | 9 | 31 28 | 36° 51′ 55″ | 36° 50′ 55″ |
| | | 27 | 9 | 40 48 | Lunæ limb. prox. | Lunæ limb. remot. |
| | | 28 | 9 | 44 55 | 23° 6′ 50″ | 23° 05′ 50″ |
| 262 | Junii | 23 | 10 | 27 8 | Lunæ limb. prox. | Lunæ limb. remot. |
| | | 25 | 10 | 43 28 | 20° 45′ 55″ | 20° 45′ 15″ |
| 265 | Sept. | 3 | 16 | 23 52 | 20′ 26″ | 26′ 56″ |
| 267 | Sept. | 22 | 7 | 42 5 | 7h 42′ 05″ | 8h 42′ 05″ |
| | | 23 | | | 7 37 09 \| 7h 48′ 46″ | 9 37 09 \| 9h 48′ 46″ |
| | | | | | 7 50 02 \| 8 01 39 | 9 50 02 \| 10 01 39 |
| | | | | | 8 4 10 \| 8 15 47 | 10 4 10 \| 10 15 47 |
| | Sept. | 28 | 8 | 02 6 | 8 2 6 | 9 2 6 |
| 271 | Oct. | 28 | 9 | 2 58 | Paral. per loc. Immer. | Paral. per loc. Emer. |
| 272 | Nov. | 23 | 6 | 57 30 | 63° 00′ 10″ | 63° 02′ 10″ |
| 273 | Jan. | 13 | 23 | 57 3 | 1338 92 \| 55° 54′ 24 | 1339 92 \| 53 56 54 |
| | | 16 | 6 | 20 12 | Lunæ limb. remot. | Lunæ limb. prox. |
| 276 | Feb. | 23 | 8 | 38 38 | 8h 55′ 34 | 8h 55′ 54″ |
| 280 | Julii | 20 | | | 11 25 36 \| 11 19 56 | 10 25 36 \| 10h 19′ 56″ |
| 282 | Aug. | 18 | | | tegitur Palus Mæotis | tegitur Palus Maræot. |
| 290 | Feb. | 11 | 12 | 37 57 | Tota Palus | Tota Palus, Mæotis |
| 292 | Mart. | 6 | 7 | 55 15 | 23° 12′ 36″ | 23° 54′ 36″ |
| 294 | Julii | 8 | 9 | 45 59 | 6 54 45 | 6 55 45 |
| 301 | Oct. | 23 | 6 | 44 6 | Lucid. ♈tis 59° 11′ 00 | 57 11 00 |
| 302 | | 26 | 7 | 17 48 | 678 65 | 679 65 |
| 303 | Nov. | 9 | 18 | 5 54 | 54° 54′ 51″ | 54 54′ 15″ |
| 310 | Apr. | 3 | 15 | 50 8 | Lunæ limb. remot. | Lunæ limb. prox. |
| | Apr. | 11 | 21 | 28 55 | 19° 50′ 10″ | 19 49′ 10″ |
| 311 | | | | | ♃ Apr. 20 | ♀ Apr. 20 |
| 312 | | | | | ♄ Junii 14 | ♃ Junii 14 |
| | Junii | 26 | *lin. ult.* | | — 11′ 05″ | 11h 00′ 05″ |
| 313 | | 27 | | | 10h 43 53 | 10 46 33 |
| | Julii | 24 | | | 8 3 11 | 9 3 11 |
| | | | 8 | 49 24 | Lunæ limb. remot. | Lunæ limb. prox. |
| 314 | Aug. | 1 | | | Aug. 1 | Aug. 2 |
| | | | | | 14h 28′ 15″ | 14h 28 15″ |
| 317 | Dec. | 3 | 18 | 53 40 | 667 83 \| 27° 53′ 53″ | 665 83 \| 27° 51′ 22″ |
| 320 | Apr. | 16 | 8 | 38 59 | 35° 45′ 28″ | 35° 48′ 28″ |
| 321 | Maii | 17 | 10 | 14 34 | 13 13 24 | 13 17 24 |
| | | | | 24 39 | Yed a Ophiuchi | a Yed Ophiuchi |
| 324 | Junii | 27 | 22 | 53 8 | 49° 39′ 22″ | 49° 35′ 22″ |
| 326 | | | | | 322 Fol. | 326 Fol. |
| | Julii | 21 | 15 | 10 55 | Lunæ limb. remot. | Lunæ limb. prox. |
| | | | | 25 41 | Lunæ limb. remot. | Lunæ limb. prox. |
| 327 | | | | | 323 Fol. | 327 Fol. |
| | Sept. | 11 | | | 20h 15′ 28″ | 20h 15′ 38″ |
| 328 | Oct. | 19 | 17 | 05 9 | 225 52 | 285 52 |

| Pag. | | d. | h ′ ″ | Pro. | Lege. |
|---|---|---|---|---|---|
| 330 | Sept. | 2 | | 19° 59′ 56″ | 19° 59′ 46″ |
| | Oct. | 22 | | 5h 50′ 33″ | 5h 50′ 23″ |
| 331 | Nov. | 6 | | 17 18 15 | 17 28 15 |
| 332 | | 23 | 5 36 55 | 1074 72 | 1074 32 |
| | | 25 | 6 43 00 | 32° 23′ 35″ | 39° 23′ 35″ |
| | Dec. | 7 | 17 53 8 | 24 50 02 | 24 52 32 |
| 333 | Jan. | 10 | 5 55 32 | 52 21 40 | 53 21 40 |
| | Feb. | 15 | | 21h 5′ 53″ | 21h 5′ 33″ |
| 334 | | 20 | 21 3 51 | 20 49 00 | 20 45 00 |
| | | | | ☽ Feb. 29 | ☽ Mart. 1 *mane* |
| 335 | Mart. | 17 | 20 24 01 | 67° 28′ 10″ | 67° 22′ 10″ |
| 336 | | 31 | 11 25 00 | ☿ totus extinct. Honold. | ☿ totus exierat |
| | | | *lin. seq.* | Juxta locum, &c. | *Honoldi* juxta loc. &c. |
| | Apr. | 10 | 20 26 41 | 10′ 50″ | 11′ 20″ |
| 337 | | | | Temp. Aufer. 18′ 20″ | |
| | Oct. | 13 | 7 27 22 | In sura Scorpii | in sura Aquarii |
| 338 | Nov. | 3 | | Add. Tempor. 12′ 4″ | |
| | | | *lin. ult.* | Reductis Indicibus, &c. | Jan. 28 Reduct. Indicib. |
| 339 | Feb. | 19 | 9 50 30 | Paulo postea preteriit per | Paulo postquam praeterierat rectam per |
| 341 | Mart. | 18 | | 13h 56′ 36″ | 13h 55′ 36″ |
| 342 | Maii | 1 | 4 5 42 | 3951 | 3851 |
| 343 | Jan. | 7 | | ♄ Jan. 7 | ☿ Jan. 25 |
| 344 | Jan. | 30 | 5 56 00 | 13° 08′ 54″ | 13° 6′ 24″ |
| 347 | Feb. | 19 | 6 17 28 | 476 05 | 476 33 |
| 348 | Mart. | 25 | | 9′ 00″ circiter | 9h 00′ 00″ |
| 353 | Oct. | 13 | | pone Immersionem | pone Imm. per Horologium vere |
| | | | *lin. seq.* | per Horologium vere | |
| 353 | Dec. | 4 | *lin. ult.* | propin. fuerat 9h 57′ | propinq. fuerat. 9h 43′ stabant ut in Fig. |
| 355 | Nov. | 28 | | ad Boream a Vicionere | ad Boream a Viciniore |
| 356 | Mart. | 18 | 11 43 00 | 3ium auct. putavi versus | auctum putavi verius |
| | | | | ♂ Nov. 16 | ♂ Nov. 6 |
| | Nov. | 30 | | ♄ Nov. 30 | ♀ Nov. 30 |
| 357 | Dec. | 20 | | 14h 31′ apparuit, &c. | forsan disparuit |
| 358 | Maii | 8 | 8 14 30 | Tertius emergere | Secundus emergere |
| 359 | Aug. | 5 | 11 25 20 | 4tus in umbram emer. | in umb. immersurus |
| | | 24 | 10 16 48 | pone immersionem | pone emersionem |
| | Oct. | 3 | 6 57 00 | Dist. ¼ diam. Jovis | Dist. 1/5 diam. Jovis |
| 360 | Sept. | 2 | 8 22 36 | Nubes caepere vexare | caepere vexare Planet. |
| 391 | Oct. | 19 | 14 27 | ♋ 8° 18′ 52″ | ♋ 8° 18′ 15″ |
| 392 | Feb. | 22 | 7 37 | 0 0 38 \| 00° 00′ 47″ A | 0 0 38 \| 0° 00′ 47″ B |
| 393 | Mart. | 21 | 10 30 | 43 49 00 | 43 49 20 |
| | Mart. | 17 | | a Serpentis α | a Serpentis α |
| 394 | Oct. | 15 | 8 14 | 39° 28′ 20″ | 39° 38′ 20″ |
| 395 | Sept. | 16 | | a pede sub Aurigae ι | a pede sup. Aurigae ι |
| | Oct. | 25 | 16 51 | ☿ ab Aurigae | ☿ ab Aurigae ι |
| | Nov. | 7 | 14 13 | ☿ ab Aurigae | ☿ ab Aurigae ι |
| | | 13 | 11 15 | ☿ ab Aurigae | ☿ ab Aurigae ι |
| 397 | Dec. | 18 | 6 44 | a Castore 15° 52′ 10″ | a Castore 12° 52′ 10″ |
| | | | | 15° 52′ 20″ | 12° 52′ 20″ |
| 399 | Mart. | 8 | 8 22 | ♌ 10° 7′ 51″ | ♍ 10° 7′ 51″ |
| | | | 8 37 | ♌ 10 7 35 | ♍ 10 7 35 |
| | | 31 | 8 42 | Latit. 2° 41′ 21″ | Latit. 2° 46′ 21″ |
| 400 | Nov. | 6 | 5 5 | 5h 05′ | 5h 45′ |